

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>FEE</b>	6. SURFACE: <b>Fee</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input checked="" type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input checked="" type="checkbox"/> <b>MULTIPLE ZONE</b> <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b>				9. WELL NAME and NUMBER: <b>KATHERINE 3-29B4</b>	
3. ADDRESS OF OPERATOR: <b>1339 EL SEGUNDO NE    ALBUQUERQUI    NM    87113</b>			PHONE NUMBER: <b>(505) 344-9380</b>	10. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: <b>670' FSL, 1217' FWL</b>  AT PROPOSED PRODUCING ZONE:				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>S4SW 29 2S 4W</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>9.1 MILES NORTHEAST OF DUCHESNE, UT</b>				12. COUNTY: <b>DUCHESNE</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>670'</b>		16. NUMBER OF ACRES IN LEASE: <b>640</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>640</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>3200'</b>		19. PROPOSED DEPTH: <b>13,250</b>		20. BOND DESCRIPTION: <b>400JU0705</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>6181.6' GR</b>		22. APPROXIMATE DATE WORK WILL START: <b>3/30/2006</b>		23. ESTIMATED DURATION: <b>60 DAYS</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
17 1/2	13 3/8	J-55	54.5#	250	50/50 POZ	120 SX	1.98    12.5
12 1/4	9 5/8	N-80	40#	6,500	50/50 POZ	950 SX	1.98    12.5 LEAD
					PREM +	260 SX	1.22    14.35 TAIL
						950 SX	1.98    12.50 TAIL
8 3/4	7	HCP-110	29#	10,300	50/50 POZ	440 SX	1.46    13.50 LEAD
6 1/8	5	HCP-110	18#	13,250	PREM +	160 SX	1.56    15.60

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) CHERYL CAMERON TITLE REGULATORY ANALYST

SIGNATURE *Cheryl Cameron* DATE 4/3/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-013-32423

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

APPROVAL:  
Date: 04-03-06  
By: *[Signature]*  
(See Instructions on Reverse Side)

**RECEIVED**  
**APR 04 2006**  
DIV. OF OIL, GAS & MINING

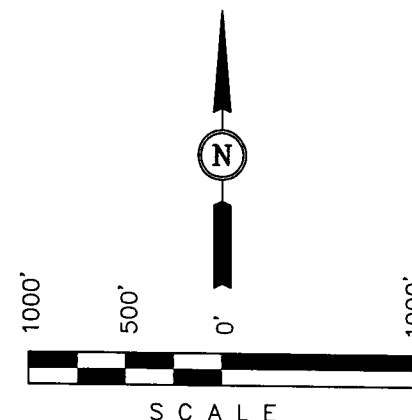
T2S, R4W, U.S.B.&M.

EL PASO PRODUCTION OIL & GAS COMPANY

Well location, KATHERINE #3-29B4, located as shown in the SE 1/4 SW 1/4 of Section 29, T2S, R4W, U.S.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION LOCATED IN THE NE 1/4 OF SECTION 30, T2S, R4W, U.S.B.&M. TAKEN FROM THE TALMAGE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6209 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

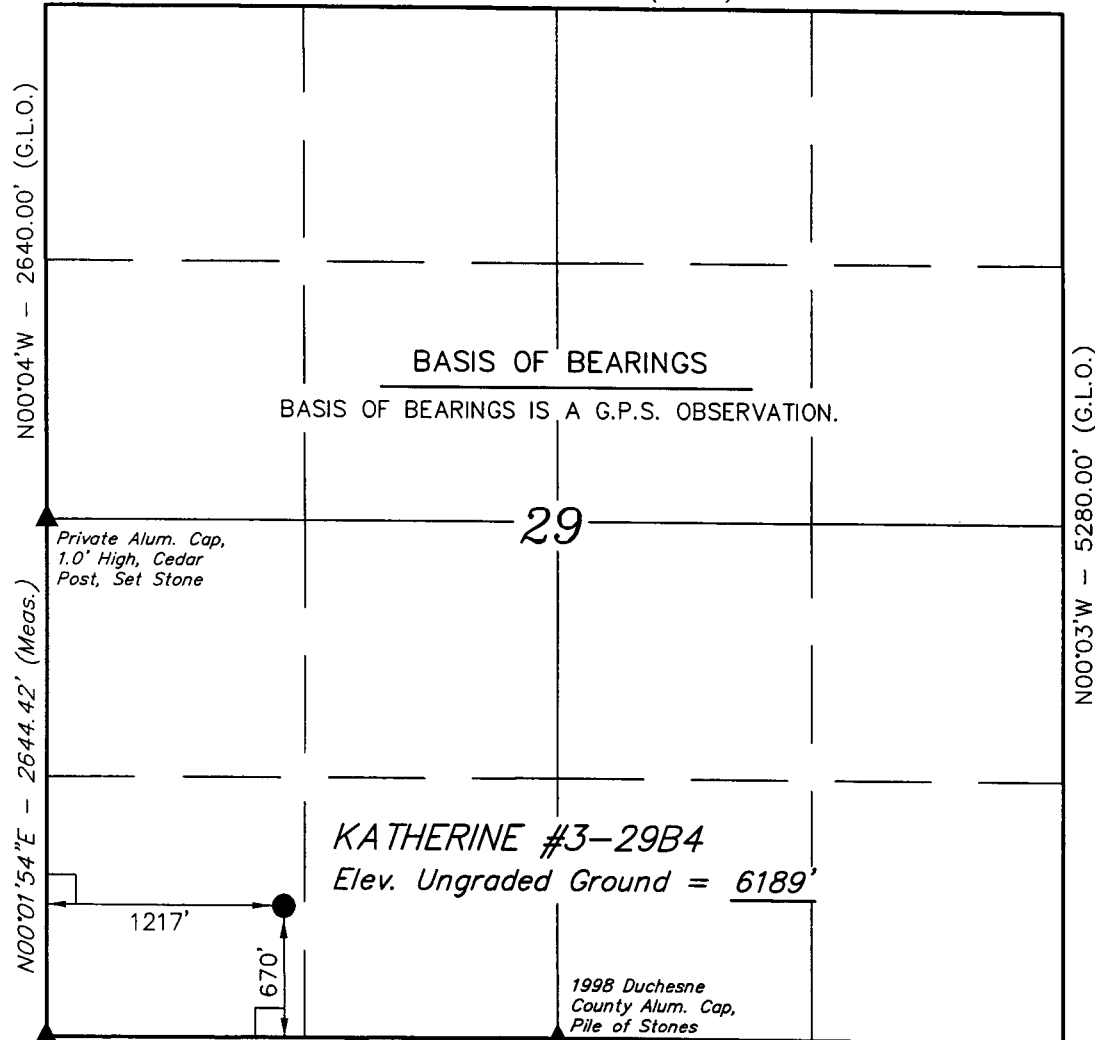
*[Signature]*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 301319  
 STATE OF UTAH

REVISED: 03-16-06

**UNTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-18-05	DATE DRAWN: 06-01-05
PARTY J.F. Z.G. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EL PASO PRODUCTION OIL & GAS COMPANY	

N89°52'W - 5293.20' (G.L.O.)



1983 Duchesne County Cap, Pile of Stones, Steel Post  
 S89°51'50"W - 2647.19' (Meas.)

WEST - 2640.00' (G.L.O.)

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
 LATITUDE = 40°16'23.37" (40.273158)  
 LONGITUDE = 110°21'55.33" (110.365369)  
 (AUTONOMOUS NAD 27)  
 LATITUDE = 40°16'23.53" (40.273203)  
 LONGITUDE = 110°21'52.77" (110.364658)

KATHERINE 3-29B4  
SE/SW Sec. 29, T2S, R4W  
DUCHESNE COUNTY, UT  
FEE

EL PASO PRODUCTION OIL & GAS COMPANY

*DRILLING PROGRAM*

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Green River	
Mahogany Bench	7,030'
L. Green River	8,530'
Wasatch	10,230'
TD	13,250'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	
	Mahogany Bench	7,030'
Oil	L. Green River	8,530'
Oil	Wasatch	10,230'

3. **Pressure Control Equipment:** (Schematic Attached)

A 13 5/8" 5M double BOP stack and 5M kill lines and choke manifold 1,000' – 10,300',  
And a 7 1/16" 10M triple stack from 10,300' – TD.

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Casing and Cementing Program.

5. **Drilling Fluids Program:**

Please refer to the attached Mud Program.

6. **Evaluation Program:**

Please refer to the attached Logging Program.

7. **Abnormal Conditions**

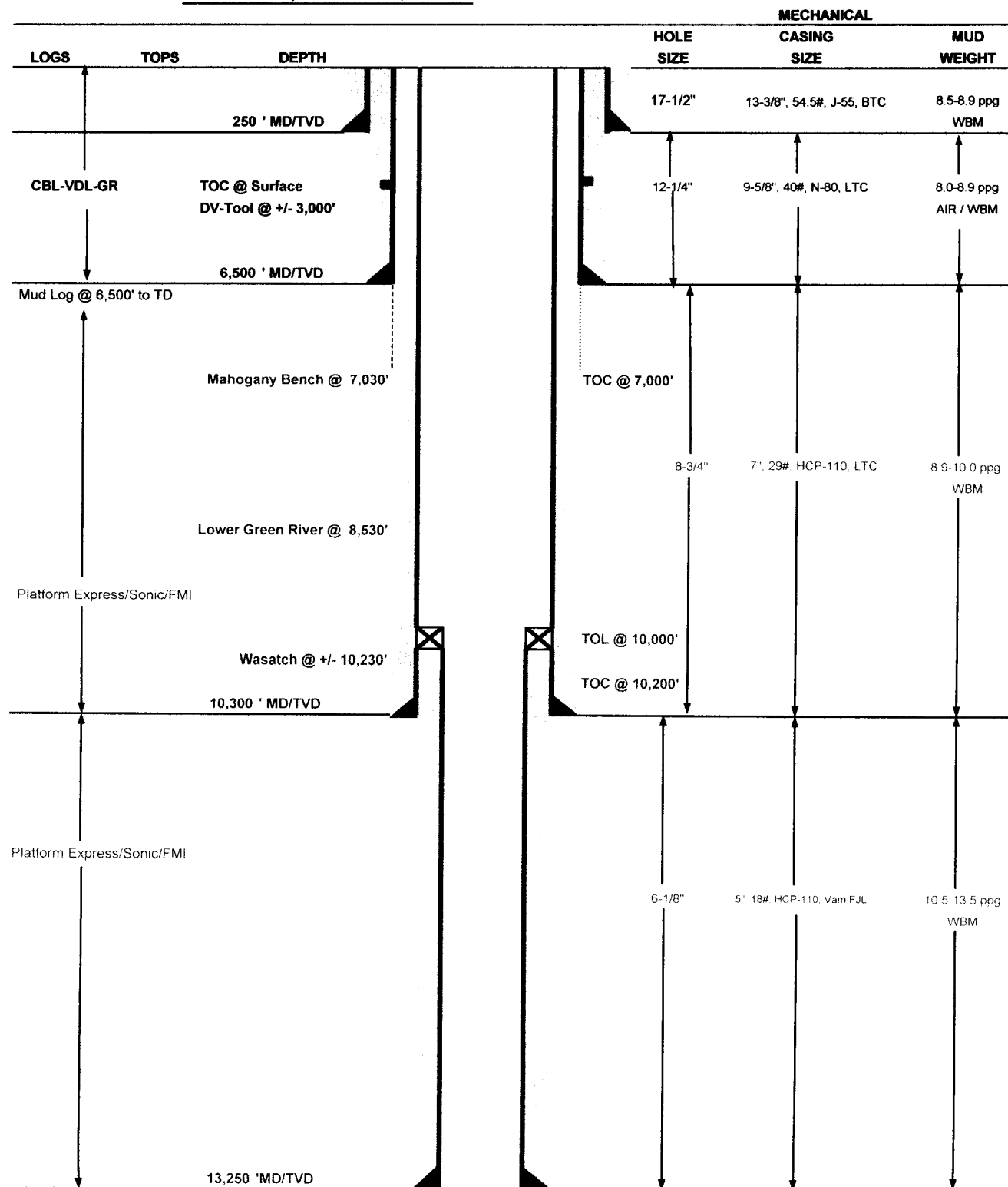
Maximum anticipated bottomhole pressure calculated @ 13,250' TD, approximately equals 6,545 psi (calculated at 0.494 psi/foot). → 3,630 psi per assumption

Maximum anticipated surface pressure equals approximately 3,630 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

## Drilling Prognosis

COMPANY NAME	El Paso Production	DATE	September 30, 2005
WELL NAME	<b>Katherine #3-29B4</b>	TD	13,250' MD/TVD
FIELD	Altamont - Bluebell	COUNTY	Duchesne STATE Utah
SURFACE LOCATION	553' FSL, 1,535' FWL, SE/SW, SEC. 29, T2S, R4W	Elev.	6,183'
OBJECTIVE ZONE(S)	Green River, Wasatch	BHL	Straight Hole
BOPE INFO	13-5/8" 5M double BOP stack and 5M kill lines and choke manifold 1,000' - 10,300'. A 7-1/16" 10M triple stack from 10,300' - TD		



**DRILLING PROGRAM****CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
SURFACE	13-3/8	0-250'	54.50	J-55	BTC	2,730	1,130	853,000
						21.45	9.66	7.51
						5,750	3,090	737,000
INTERMEDIATE	9-5/8"	0 - 6,500'	40.00	N-80	LTC	1.58	1.02	2.05
PRODUCTION	7"	0 - 10,300'	29.00	HCP-110	LTC	11,220	9,200	797,000
						2.05	1.72	2.00
PRODUCTION LINER	5"	10,000' - 13,250'	18	HCP-110	Vam FJL	13,940	13,470	353,000
						1.97	1.50	2.31

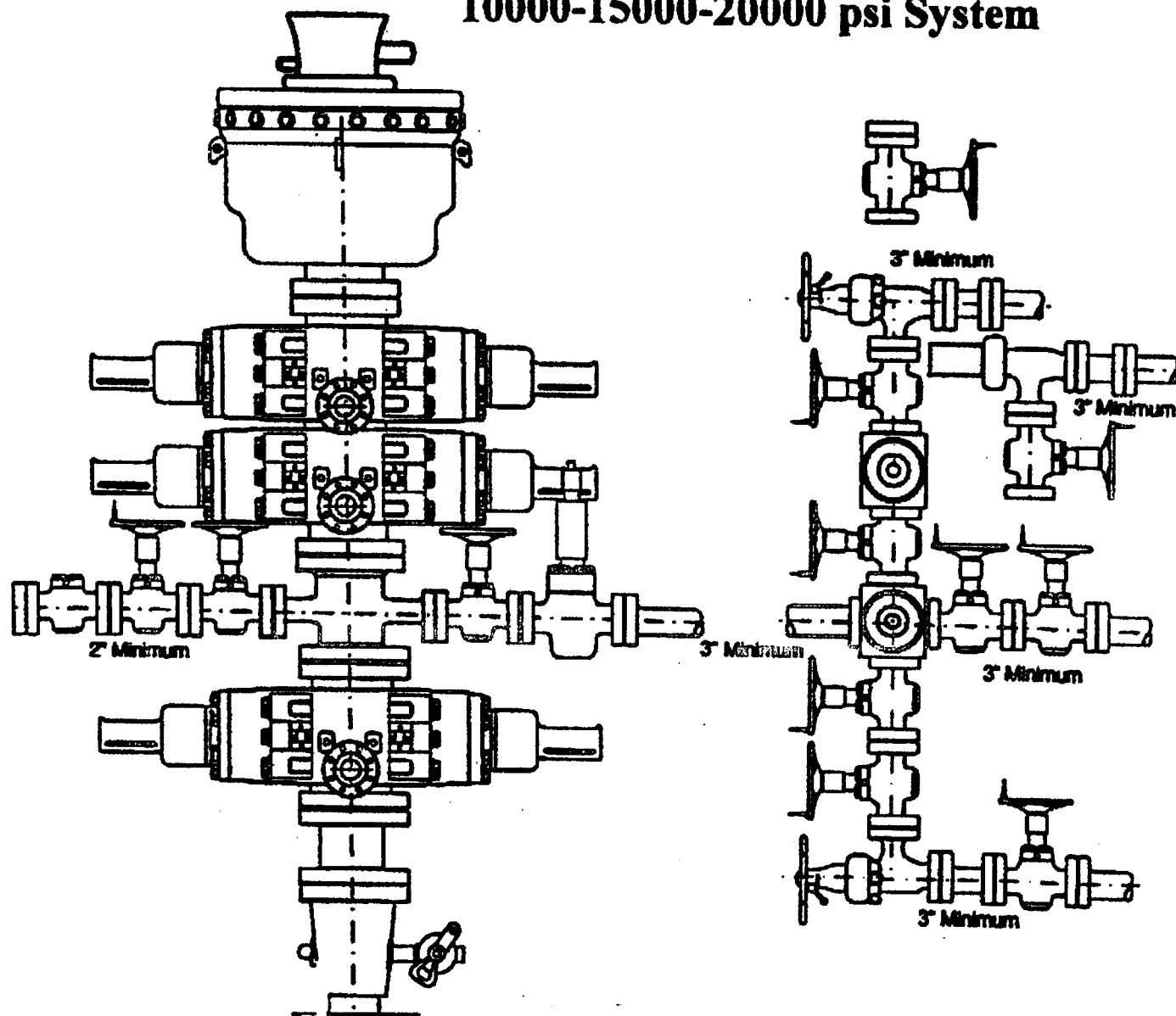
CEMENT PROGRAM	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
<b>Conductor</b>	250	50/50 Poz + 10% Ca Seal+ 8% Gel + 0.25 lb/sx Flocele	120	35%	12.50	1.98
<b>Surface</b>						
1st Stg. Lead	3,000	50/50 Poz + 10% Ca Seal+ 8% Gel + 0.25 lb/sx Flocele	950	100%	12.50	1.98
1st Stage Tail	500	Premium Plus + 2% CaCl <sub>2</sub> + 0.25 lb/sx Flocele	260	100%	14.35	1.22
2nd Stage	3000	50/50 Poz + 10% Ca Seal+ 8% Gel + 0.25 lb/sx Flocele	950	100%	12.50	1.98
<b>PRODUCTION</b>						
LEAD	7000-10300	50/50 Poz +0.25 lb/sk Flocele+5 pps Silicate	440	25%	13.50	1.46
Fill	3,300	+ 0.1% HR-12 + .2% CFR-3				
PRODUCTION LINER	10300-13250	Premium + .5% Halad-344 + 35% SSA-1	160	15%	15.60	1.56
Fill	2,950	+ 0.4% CFR-3 + .4% HR-12				
Liner Lap	100					

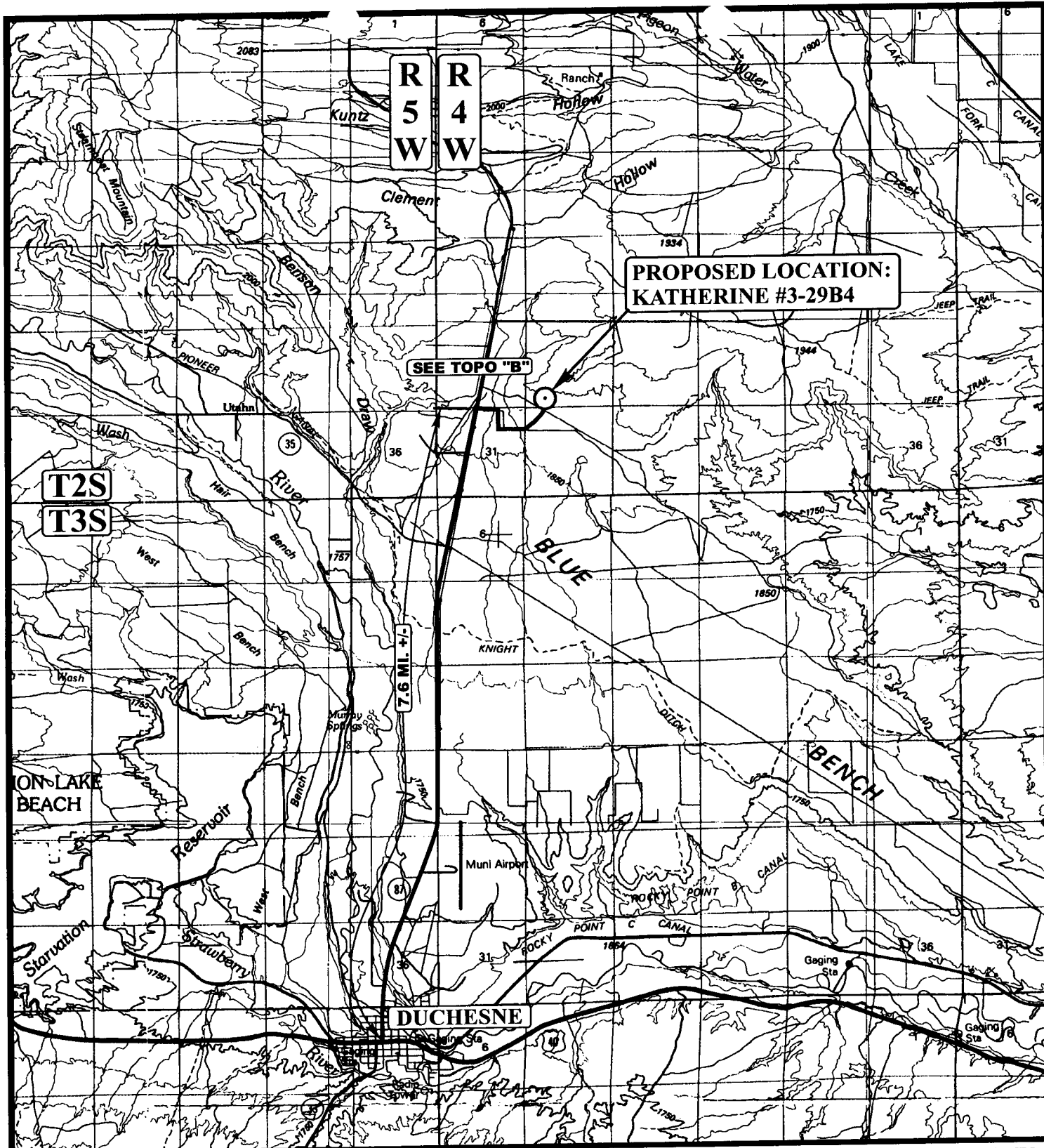
**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Float shoe, 1 joint, float collar. Centralize 5' above shoe & 5 centralizers every third collar. Thread lock FE & bottom joint.
INTERMEDIATE	Float shoe, 1 joint, float collar. Centralize every 4th joint to 3000'. Thread lock all FE DV-Tool at +/- 3,000'. Centralized above and below DV-Tool. Thread lock all FE
PRODUCTION	Float shoe, 1 joint, float collar. Centralize every 4th joint to 8000'. Thread lock all FE
LINER	Float shoe, 1 joint, float collar. Centralize every 4th joint to top of pay. Thread lock all FE

PROJECT ENGINEER: Buddy NovakDRILLING MANAGER: Scott Palmer

# 10000-15000-20000 psi System





# LEGEND:

○ PROPOSED LOCATION

N

EL PASO PRODUCTION OIL & GAS COMPANY

KATHERINE #3-29B4

SECTION 29, T2S, R4W, U.S.B.&M.

670' FSL 1217' FWL



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

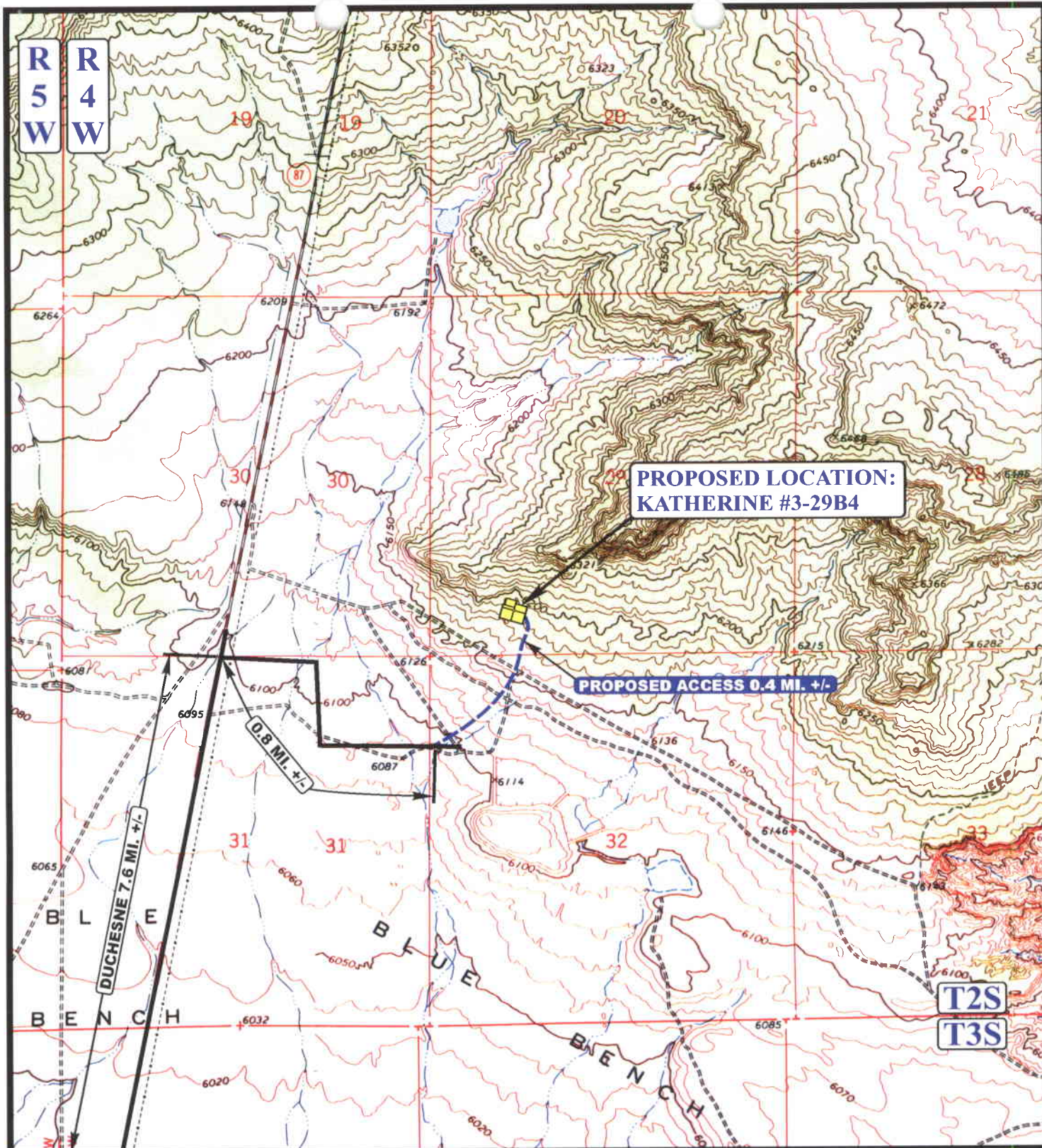
03 17 06  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 03-27-06

**A**  
 TOPO



# **LEGEND:**

 EXISTING ROAD  
 PROPOSED ACCESS ROAD

**EL PASO PRODUCTION OIL & GAS COMPANY**

**KATHERINE #3-29B4**  
**SECTION 29, T2S, R4W, U.S.B.&M.**  
**670' FSL 1217' FWL**



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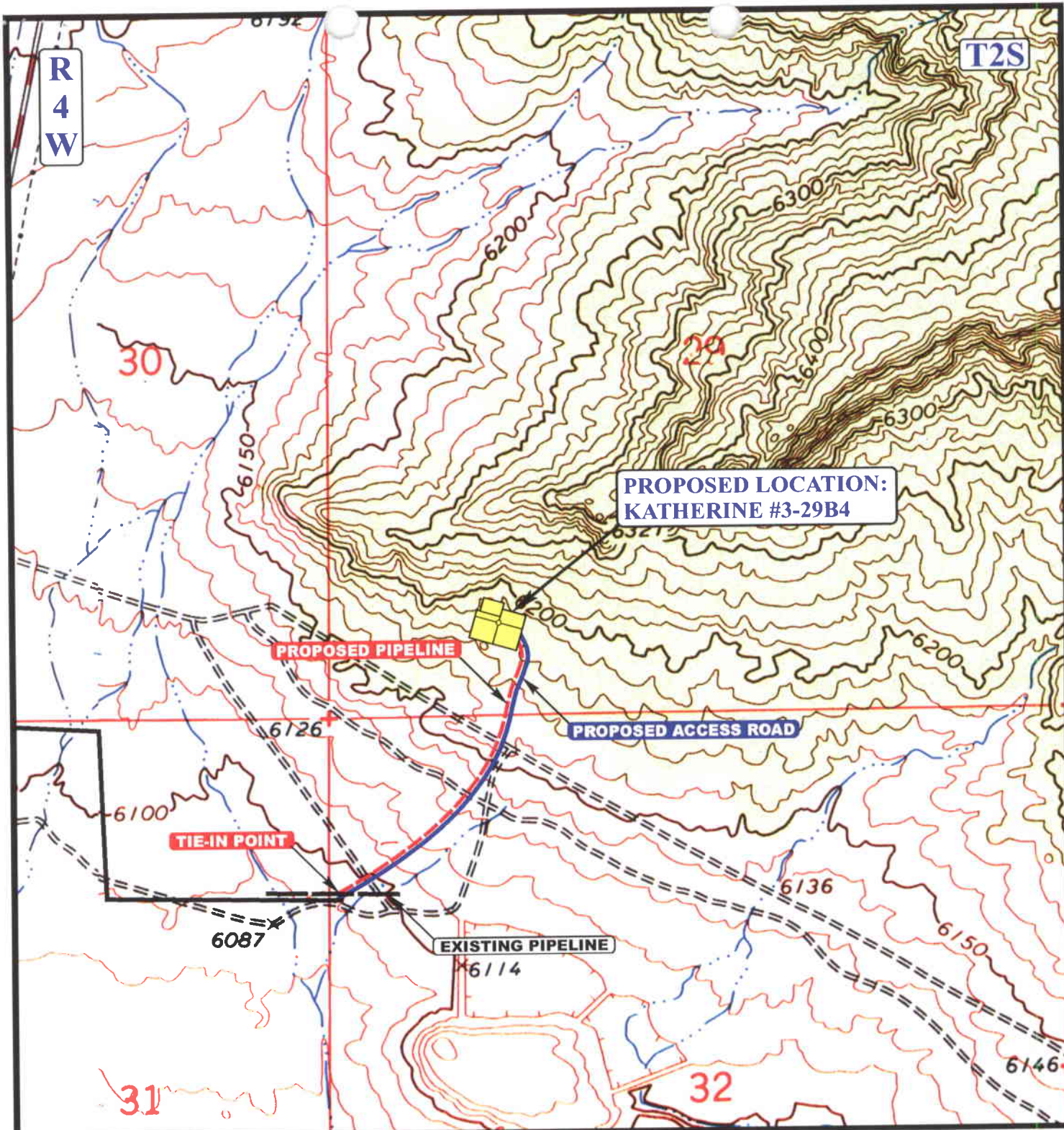


**TOPOGRAPHIC**  
**MAP**

**03** **17** **06**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 03-27-06





**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,488' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - EXISTING PIPELINE
- - - - - PROPOSED PIPELINE



**EL PASO PRODUCTION OIL & GAS COMPANY**

**KATHERINE #3-29B4**  
**SECTION 29, T2S, R4W, U.S.B.&M.**  
**670' FSL 1217' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **03 17 06**  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 03-27-06

**D**  
**TOPO**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>FEE</b>	6. SURFACE: <b>Fee</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input checked="" type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input checked="" type="checkbox"/> <b>MULTIPLE ZONE</b> <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b>				9. WELL NAME and NUMBER: <b>KATHERINE 3-29B4</b>	
3. ADDRESS OF OPERATOR: <b>1339 EL SEGUNDO NE    ALBUQUERQUI    NM    87113</b>				10. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: <b>670' FSL, 1217' FWL</b> <i>554015X      40.273206</i> AT PROPOSED PRODUCING ZONE: <i>4458064Y      110.364614</i>				11. QTRQTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESW 29 2S 4W</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>9.1 MILES NORTHEAST OF DUCHESNE, UT</b>				12. COUNTY: <b>DUCHESNE</b>	
				13. STATE: <b>UTAH</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>670'</b>		16. NUMBER OF ACRES IN LEASE: <b>640</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>640</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>3200'</b>		19. PROPOSED DEPTH: <b>13,250</b>		20. BOND DESCRIPTION: <b>400JU0705</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>6181.6' GR</b>		22. APPROXIMATE DATE WORK WILL START: <b>3/30/2006</b>		23. ESTIMATED DURATION: <b>60 DAYS</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
17 1/2	13 3/8	J-55	54.5#	1,000	50/50 POZ	562 SX	1.98    12.5
					PREM +	273 SX	1.17    15.8
12 1/4	9 5/8	N-80	40#	6,500	CBM LT.	287 SX	4.10    10.5
					50/50 POZ	178 SX	1.22    14.35
8 3/4	7	HCP-110	29#	10,300	50/50 POZ	440 SX	1.46    13.5
6 1/8	5	HCP-110	18#	13,250	PREM +	160 SX	1.56    15.6

<b>25. ATTACHMENTS</b>	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN  <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) <u>CHERYL CAMERON</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE <u><i>Cheryl Cameron</i></u>	DATE <u>3/20/2006</u>

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_

APPROVAL: \_\_\_\_\_

**MAR 23 2006**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380		8. WELL NAME and NUMBER: KATHERINE 3-29B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 29 2S 4W		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL
		COUNTY: DUCHESNE STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>AMENDMENT</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ATTACHED ARE THE AMENDED PLATS FOR THE LOCATION MOVE FOR THE SUBJECT WELL. THE FOOTAGES HAVE BEEN AMENDED FROM 553' FSL, 1535' FWL TO 670' FSL, 1217' FWL.

NAME (PLEASE PRINT) <u>CHERYL CAMERON</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE <u><i>Cheryl Cameron</i></u>	DATE <u>3/17/2006</u>

(This space for State use only)

RECEIVED

MAR 20 2006

DIV. OF OIL, GAS & MINING

KATHERINE 3-29B4  
SE/SW Sec. 29, T2S, R4W  
DUCHESNE COUNTY, UT  
FEE

EL PASO PRODUCTION OIL & GAS COMPANY  
*DRILLING PROGRAM*

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Green River	
Mahogany Bench	7,030'
L. Green River	8,530'
Wasatch	10,230'
TD	13,250'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	
	Mahogany Bench	7,030'
Oil	L. Green River	8,530'
Oil	Wasatch	10,230'

3. **Pressure Control Equipment:** (Schematic Attached)

The BOP stack will consist of one 11" 5,000 psi annular BOP 11" 5,000 psi double ram, and one 11' drilling spool. The lower ram will contain pipe rams, and the upper ram will contain blind rams.

The choke and kill lines and the choke manifold will have a 5,000 psi minimum pressure.

The BOPE and related equipment will meet the requirements of the 5M system.

## **OPERATORS MINIMUM SPECIFIC FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M PSI working pressure. We will NU a 11" 5 single BOP, Mud-cross, 11" 5M double BOP, 5M Annular. This equipment will be nipped up on the surface casing and tested to 250 psi low test/5M psi high test prior to drilling out. The surface casing will be tested to 1500 psi. Intermediate casing will be tested to the greater of 1500 psi or .22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventor will be tested to 250 psi low test/and 2500 psi high test or 50% of rated working pressure. The BOPE will be hydraulically operated. The tree will be 10M psi working pressure.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

### **Statement on Accumulator System and Location of Hydraulic Controls**

**The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance for 5M psi systems.**

### **DRILLING FLUIDS:**

Proposed Mud Program:

Interval	Type	Mud Weight	Viscosity	Fluid Loss
Surface	WBM	8.5 – 8.9	32 – 50	N/C - 25 cc's
Intermediate	WBM	8.9 – 10.0	40 – 50	10-20 HTHP
Production	WBM	10.5 – 13.5	40 – 55	10-15 HTHP

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for tip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

### **AUXILIARY EQUIPMENT:**

- A) Mud logger with gas monitor – 2500' to TD.
- B) Choke manifold with one manual and one hydraulic operated chokes.
- C) Full opening floor valve with drill pipe thread.
- D) Upper & lower Kelly cock.
- E) Shaker, drying shaker, desander, desilter, and mud cleaner.

#### **4. Proposed Casing & Cementing Program:**

Please refer to the attached Casing and Cementing Program.

5. **Drilling Fluids Program:**

Please refer to the attached Mud Program.

6. **Evaluation Program:**

Please refer to the attached Logging Program.

7. **Abnormal Conditions**

Maximum anticipated bottomhole pressure calculated @ 13,250' TD, approximately equals 6,545 psi (calculated at 0.494 psi/foot).

Maximum anticipated surface pressure equals approximately 3,630 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

color to match one of the standard environmental colors, *as determined by the acting AO during the onsite inspection.*

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

In the event that oil and gas production is established, the pipeline connection(s) and lateral(s) shall tie in to the existing pipeline. The proposed pipeline will leave the well pad in a Southeasterly direction for an approximate distance of 1,684' +/- . Refer to Topo Map D.

All buried pipelines will be buried to a depth of 3 feet, except at road crossings where they will be buried to a depth of 4 feet.

Construction width of the right-of-way/pipeline route shall be restricted to 50 feet of disturbance.

5. **Location and Type of Water Supply:**

Water to be used for the drilling of the proposed well will be obtained from Dalbo Inc.'s underground well, located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

6. **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. **Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner shall be used. The liner will be a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit. *As determined during the onsite inspection.*

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and a line installed that will tie into the existing SWD line ( Ute 2-33C6, Sec. 33, T3S, R6W, and the Cedar Rim 15, Sec. 34, T3S, R6W). The produced water will then be disposed of at the Ute #1 Disposal, Sec. 15, T3S, R6W, via the SWD line. This request is in lieu of filing Form 3160-5, after initial production.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth. *As determined during the onsite inspection.*

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Corners shall be rounded as needed in order to control drainage.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with R649-3-16.

A plastic, nylon reinforced liner with felt shall be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.

The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

The pit topsoil shall be piled as shown on the Location Layout diagram.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s). *As determined during the onsite inspection.*

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. **Surface Ownership:**

*The wellsite and lease is located entirely on Private Surface. A hard copy of the Surface Owner Agreement shall be submitted as soon as it becomes available.*

Katherine Ann Hartley  
15 Salt Ridge Road  
Orleans, MA 02653-3119

12. **Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his contractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-of-Way for roads, pipelines, well sites, or other applicable facilities.

13. **Lessee's or Operator's Representative & Certification:**

Cheryl Cameron  
Authorized Agent for  
El Paso Production O&G Co.  
1139 El Segundo NE  
Albuquerque, NM 87113  
(505) 344-9380

Scott Palmer  
Drilling Manager  
El Paso Production O&G Co.  
9 Greenway Plaza  
Houston, TX 77046  
(713) 420-3391

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

El Paso Production Oil & Gas Company is considered to be the operator of the subject well. El Paso Production Oil & Gas Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for the lease activities is being provided by Lessee Statewide Blanket Bond No.400JU0705.

I hereby certify that the proposed drill site and access route has been inspected, and I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

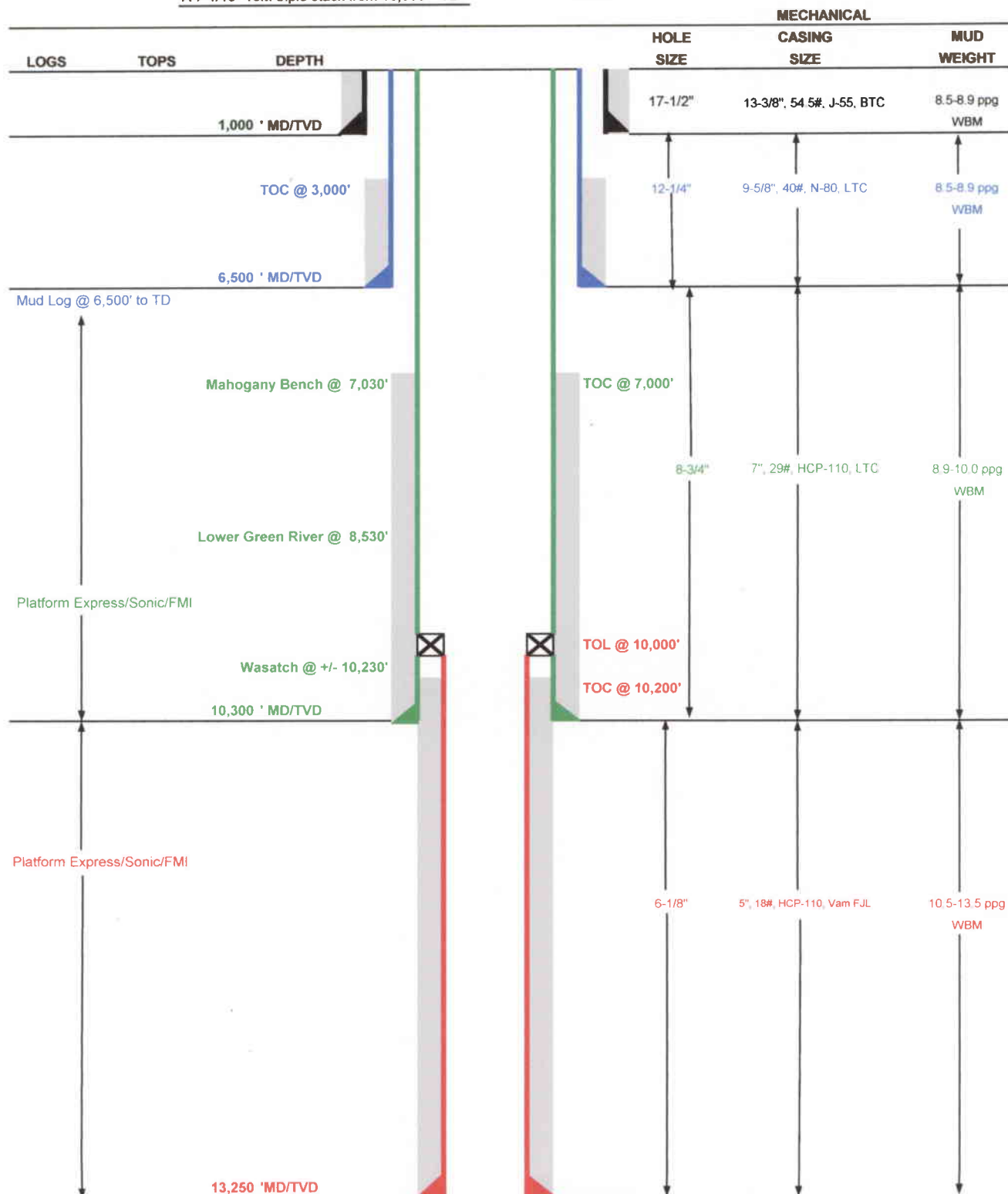
Name Cheryl Cameron  
Cheryl Cameron

Date 10/11/05

Authorized Regulatory Agent for El Paso Production O&G Company

### Drilling Prognosis

COMPANY NAME	El Paso Production	DATE	September 30, 2005
WELL NAME	<b>Katherine #3-29B4</b>	TD	13,250' MD/TVD
FIELD	Altamont - Bluebell (270) 8217	COUNTY	Duchesne STATE Utah
SURFACE LOCATION	<del>555'</del> FSL, <del>1,535'</del> FWL, SE/SW, SEC. 29, T2S, R4W	Elev.	6,183'
OBJECTIVE ZONE(S)	Green River, Wasatch	BHL	Straight Hole
BOPE INFO	13-5/8" 5M double BOPE stack and 5M kill lines and choke manifold 1,000' - 10,300'. A 7-1/16" 10M triple stack from 10,300' - TD		



**DRILLING PROGRAM****CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
SURFACE	13-3/8	0-1000'	54.50	J-55	BTC	2,730	1,130	853,000
						5.36	2.41	5.52
						5,750	3,090	737,000
INTERMEDIATE	9-5/8"	0 - 6,500'	40.00	N-80	LTC	1.58	1.02	2.05
PRODUCTION	7"	0 - 10,300'	29.00	HCP-110	LTC	11,220	9,200	797,000
						2.05	1.72	2.00
PRODUCTION LINER	5"	10,000' - 13,250'	18	HCP-110	Vam FJL	13,940	13,470	353,000
						1.97	1.50	2.31

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE							
	Lead	800	50/50 Poz Premium + 10% Cal-Seal + .25 pps Flocele	562	100%	12.50	1.98
	Tail	200	Premium + 2% Calcium Chloride + .25 pps Flocele	273	100%	15.80	1.17
INTERMEDIATE							
	Lead	3,000	CBM Light	287	25%	10.50	4.10
	Tail	500	50/50 Poz + 0.6% Halad-322+ 5 pps Gilsonite +5% Salt + 1 pps Granulite	178	25%	14.35	1.22
PRODUCTION							
	LEAD	7000-10300	50/50 Poz +0.25 lb/sk Flocele+5 pps Silicate	440	25%	13.50	1.46
	Fill	3,300	+ 0.1% HR-12 + .2% CFR-3				
PRODUCTION LINER							
	Fill	10300-13250	Premium + .5% Halad-344 + 35% SSA-1	160	15%	15.60	1.56
	Fill	2,950	+ 0.4% CFR-3 + .4% HR-12				
	Liner Lap	100					

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Float shoe, 1 joint, float collar. Centralize 5' above shoe & 5 centralizers every third collar. Thread lock FE & bottom joint.
INTERMEDIATE	Float shoe, 1 joint, float collar. Centralize every 4th joint to 3000'. Thread lock all FE
PRODUCTION	Float shoe, 1 joint, float collar. Centralize every 4th joint to 8000'. Thread lock all FE
LINER	Float shoe, 1 joint, float collar. Centralize every 4th joint to top of pay. Thread lock all FE

PROJECT ENGINEER: Buddy NovakDRILLING MANAGER: Scott Palmer

## Transcontinent Oil Company

September 15, 2005

Ms. Katherine Ann Hartley  
15 Salty Ridge Rd  
Orleans, MA 02653

RE: Waiver of Archaeological Survey  
El Paso Production Oil & Gas USA, LP  
Katherine 3-29B4 Oil & Gas Well  
Township 2 South, Range 4 West: Section 29: SE/4SW/4 (40.00 acres)  
Duchesne County, Utah

Dear Ms. Hartley:

El Paso Production Oil & Gas USA, LP is preparing for the construction of a drill pad with access road and flow lines in preparation of a well to be drilled on the captioned lands. In preparation of this construction, El Paso respectfully requests that you agree to waive any such condition to prepare or cause to be prepared an Archaeological Survey.

If you are agreeable to the forgoing, please sign and execute this release and waiver of the requirement by signing and returning one copy of this letter to the undersigned.

Transcontinent Oil Company

By:   
Agent

NOW THEREFORE,  
I, THE UNDERSIGNED SURFACE OWNER IN CONSIDERATION OF THE PREMISES AND  
OTHER GOOD AND VALUABLE CONSIDERATION DO HEREBY AGREE AND ACCEPT  
THAT NO ARCHAEOLOGICAL SURVEY IS REQUIRED BY ME, AND AS SUCH EL PASO  
PRODUCTION OIL & GAS USA, LP IS HEREBY RELEASED FROM ANY OBLIGATION OR  
REQUIREMENT TO CONDUCT ANY ARCHAEOLOGICAL SURVEY OR ASSESMENT OF  
THE LANDS DESCRIBED ABOVE.

AGREED TO THIS 18 DAY OF 10, 2005, BY:

  
Katherine Ann Hartley

RECEIVED  
NOV 09 2005  
DIV. OF OIL, GAS & MINING

## DAMAGE SETTLEMENT AND RELEASE

STATE OF UTAH           §  
                                   §  
 COUNTY OF DUCHESNE §

Katherine Ann Hartley, 15 Salty Ridge Rd, Orleans, MA 02653, hereafter referred to as "Surface Owner", acknowledges receipt of the sum of Three Thousand and Five Hundred Dollars and 00/100 (\$3,500.00) from El Paso Production Oil & Gas USA, LP, 1001 Louisiana St, Houston, TX 77002, hereafter referred to as "El Paso", being full settlement, satisfaction and discharge of any and all claims against El Paso, its agents, contractors, employees, successors and assigns for any and all injuries or damages of every character and description sustained by Surface Owner or Surface Owner's property as a result of operations associated with the drilling of Katherine 3-29B4 Well to be located in the SE/4SW/4 of Section 29, Township 2 South Range 4 West, USM, Duchesne County, being 40.00 acres of land, more or less.

In addition, El Paso shall have the option, but not the obligation to land farm the mud cuttings generated by the drilling of the above mentioned well in compliance to the regulations set forth by the Department of Oil Gas and Minerals for the State of Utah

In consideration of the sum paid to Surface Owners as set out above, the undersigned hereby remise, release and forever discharge and give full acquittance to El Paso, its partners, successors and assigns from all and every actions, claim and demand against it as aforesaid.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Clerk's office.

Executed this 11 day of 10, 2005.

## SURFACE OWNER:

Katherine Ann Hartley

  
 By: Katherine Ann Hartley

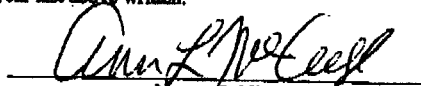
Ent 380882 Bk A456 Pg 42  
 Date: 18-OCT-2005 3:49PM  
 Fee: \$10.00 Check  
 Filed By: CBM  
 CAROLYN MADSEN, Recorder  
 DUCHESNE COUNTY CORPORATION  
 For: TRANSCONTINENT OIL CO

## ACKNOWLEDGEMENT

STATE OF Mass )  
 COUNTY OF Barnstable ) :SS

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 11 day of October, 2005, personally appeared Katherine Ann Hartley, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

  
 Notary Public

My Commission Expires: 9/6/07

**RIGHT-OF-WAY AGREEMENT**

STATE OF UTAH }  
COUNTY OF DUCHESNE } :SS  
}

FOR AND IN CONSIDERATION OF TEN & 00/100ths DOLLARS (\$10.00) and other good and valuable consideration, in hand paid to

Katherine Ann Hartley  
whose address is, 15 Salty Ridge Rd, Orleans, MA 02653

("GRANTOR"), the receipt and sufficiency of which is hereby acknowledge, does hereby grant to El Paso Production Oil & Gas USA, LP ("GRANTEE"), of 1001 Louisiana St, Houston, Texas 77002, its successors or assigns, a right-of-way to construct, maintain and use a road for the purpose of drilling, operating and maintaining a well or wells for the production of the oil and/or gas, along with the right to lay, construct, maintain, alter, inspect, repair, replace, change the size of, operate, and remove a pipeline and from time to time additional pipeline or pipelines, drips, valves, electrical power lines, whether buried or overhead, cathodic equipment, and all appurtenances convenient for the maintenance and operation of said lines and for the transportation of oil, gas, produced water, or other substances therein, under, on, over and through the premises hereinafter described, and the Grantee is granted the right of ingress and egress, over and across said road and lands for any purpose necessary or incidental to the drilling, operating and maintaining a well or wells owned by Grantee.

The said right-of-way shall be located over and across the following described lands owned by the Grantor in Duchesne County, State of Utah, to-wit:

T2S-R4W, USB&M Sec. 29: SE/4SW/4, being 40.00 acres of land, more or less

To have and to hold said easements, rights, and right-of-way unto the said Grantee, its successors and assigns.

Grantee to have the right to select, change or alter the routes of all pipelines and roads herein authorized to be laid under, upon, over and through the above described premises. All pipelines installed hereunder shall be buried a minimum of thirty-six (36") inches. Grantor shall not place anything over or so close to any pipeline, road, or other facility of Grantee as will be likely to interfere with Grantee's access thereto by use of equipment of means customarily employed in the maintenance of pipelines. Grantee to pay for all damage to growing crops, drainage tile and fences of Grantor arising out of the construction or repair of any of the pipelines, roads, and facilities herein authorized to be maintained and operated by Grantee. This easement shall not exceed forty (40') feet for construction and twenty (20') feet permanent easement. Pipelines and disturbed ground not in the permanent road easement to be reseeded at recommended seeding rates per Surface Owner once cleanup is completed.

The foregoing sets out the entire agreement between Grantor and Grantee, and supersedes any prior oral or written agreements or negotiations not set out in writing herein or in the oil and gas lease covering the above described lands. No provisions of this agreement shall be modified, altered or waived except by written amendment executed by the parties or their representatives as set forth below.

For the same consideration, the undersigned agree to account to any party who may be entitled to any portion of the aforementioned sum, and to indemnify and hold harmless El Paso Production Company, its successors and assigns, from any claim by any other party for damages to the above described lands and the improvements and crops and other things situated thereon.

Grantor shall be held harmless from any claim or demand made on the grounds of damage to property or injury to or death of persons, arising out of Grantee's exercise of the rights herein granted.

This agreement shall terminate within six (6) months after cessation of use by Grantee, at which time Grantee agrees to restore the surface of said land as nearly as is reasonably practical to its original condition.

This agreement shall be binding upon the successors and assigns of the parties hereto and shall be deemed to be a covenant running with the lands described above.

IN WITNESS WHEREOF, the GRANTOR and GRANTEE herein named have hereunto set their hand and seal this 11 day of 10, 2005.

Katherine Ann Hartley

  
By: Katherine Ann Hartley

Ent 380881 Bk 0456 Pg 41  
Date: 18-OCT-2005 3:49PM  
Fee: \$10.00 Check  
Filed By: CBM  
CAROLYN MADSEN, Recorder  
DUCESNE COUNTY CORPORATION  
For: TRANSCONTINENT OIL CO

STATE OF Mass  
COUNTY OF Barnstable

**ACKNOWLEDGEMENT**

:SS

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 11 day of October, 2005, personally appeared Katherine Ann Hartley, to me known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My Commission Expires 9/16/07  
My commission expires: September 16, 2007

  
Notary Public

# Transcontinent Oil Company

September 15, 2005

Ms. Katherine Ann Hartley  
15 Salty Ridge Rd  
Orleans, MA 02653

RE: Waiver of Archaeological Survey  
El Paso Production Oil & Gas USA, LP  
Katherine 3-29B4 Oil & Gas Well  
Township 2 South, Range 4 West: Section 29: SE/4SW/4 (40.00 acres)  
Duchesne County, Utah

Dear Ms. Hartley:

El Paso Production Oil & Gas USA, LP is preparing for the construction of a drill pad with access road and flow lines in preparation of a well to be drilled on the captioned lands. In preparation of this construction, El Paso respectfully requests that you agree to waive any such condition to prepare or cause to be prepared an Archaeological Survey.

If you are agreeable to the forgoing, please sign and execute this release and waiver of the requirement by signing and returning one copy of this letter to the undersigned.

Transcontinent Oil Company

By:   
Agent

NOW THEREFORE,  
I, THE UNDERSIGNED SURFACE OWNER IN CONSIDERATION OF THE PREMISES AND  
OTHER GOOD AND VALUABLE CONSIDERATION DO HEREBY AGREE AND ACCEPT  
THAT NO ARCHAEOLOGICAL SURVEY IS REQUIRED BY ME, AND AS SUCH EL PASO  
PRODUCTION OIL & GAS USA, LP IS HEREBY RELEASED FROM ANY OBLIGATION OR  
REQUIREMENT TO CONDUCT ANY ARCHAEOLOGICAL SURVEY OR ASSESMENT OF  
THE LANDS DESCRIBED ABOVE.

AGREED TO THIS 18 DAY OF 10, 2005, BY:

  
Katherine Ann Hartley

RECEIVED  
NOV 09 2005

DIV. OF OIL, GAS & MINING

**DAMAGE SETTLEMENT AND RELEASE**

STATE OF UTAH           §  
                                   §  
 COUNTY OF DUCHESNE   §

**Katherine Ann Hartley, 15 Salty Ridge Rd, Orleans, MA 02653, hereafter referred to as "Surface Owner", acknowledges receipt of the sum of Three Thousand and Five Hundred Dollars and 00/100 (\$3,500.00) from El Paso Production Oil & Gas USA, LP, 1001 Louisiana St, Houston, TX 77002, hereafter referred to as "El Paso", being full settlement, satisfaction and discharge of any and all claims against El Paso, its agents, contractors, employees, successors and assigns for any and all injuries or damages of every character and description sustained by Surface Owner or Surface Owner's property as a result of operations associated with the drilling of Katherine 3-29B4 Well to be located in the SE/4SW/4 of Section 29, Township 2 South Range 4 West, USM, Duchesne County, being 40.00 acres of land, more or less.**

In addition, El Paso shall have the option, but not the obligation to land farm the mud cuttings generated by the drilling of the above mentioned well in compliance to the regulations set forth by the Department of Oil Gas and Minerals for the State of Utah

In consideration of the sum paid to Surface Owners as set out above, the undersigned hereby remise, release and forever discharge and give full acquittance to El Paso, its partners, successors and assigns from all and every actions, claim and demand against it as aforesaid.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Clerk's office.

Executed this 11 day of 10, 2005.

**SURFACE OWNER:**  
**Katherine Ann Hartley**

  
 By: Katherine Ann Hartley

Ent 380882 Bk A456 Pg 42  
 Date: 18-OCT-2005 3:49PM  
 Fee: \$10.00 Check  
 Filed By: CBM  
 CAROLYNE MADSEN, Recorder  
 DUCHESNE COUNTY CORPORATION  
 FOR: TRANSCONTINENT OIL CO

**ACKNOWLEDGEMENT**

STATE OF Mass )  
 COUNTY OF Barnstable )

);SS

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 11 day of October, 2005, personally appeared **Katherine Ann Hartley**, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.



My Commission Expires:

9/6/07

Ann L. McGrath  
Notary Public

ANN L. McGRATH, Notary Public  
My commission expires: September 6, 2007

**RIGHT-OF-WAY AGREEMENT**

STATE OF UTAH

}

} :SS

COUNTY OF DUCHESNE

}

FOR AND IN CONSIDERATION OF TEN & 00/100ths DOLLARS (\$10.00) and other good and valuable consideration, in hand paid to

Katherine Ann Hartley

whose address is, 15 Salty Ridge Rd, Orleans, MA 02653

("GRANTOR"), the receipt and sufficiency of which is hereby acknowledge, does hereby grant to El Paso Production Oil & Gas USA, LP ("GRANTEE"), of 1001 Louisiana St, Houston, Texas 77002, its successors or assigns, a right-of-way to construct, maintain and use a road for the purpose of drilling, operating and maintaining a well or wells for the production of the oil and/or gas, along with the right to lay, construct, maintain, alter, inspect, repair, replace, change the size of, operate, and remove a pipeline and from time to time additional pipeline or pipelines, drips, valves, electrical power lines, whether buried or overhead, cathodic equipment, and all appurtenances convenient for the maintenance and operation of said lines and for the transportation of oil, gas, produced water, or other substances therein, under, on, over and through the premises hereinafter described, and the Grantee is granted the right of ingress and egress, over and across said road and lands for any purpose necessary or incidental to the drilling, operating and maintaining a well or wells owned by Grantee.

The said right-of-way shall be located over and across the following described lands owned by the Grantor in Duchesne County, State of Utah, to-wit:

T2S-R4W, USB&M Sec. 29: SE/4SW/4, being 40.00 acres of land, more or less

To have and to hold said easements, rights, and right-of-way unto the said Grantee, its successors and assigns.

Grantee to have the right to select, change or alter the routes of all pipelines and roads herein authorized to be laid under, upon, over and through the above described premises. All pipelines installed hereunder shall be buried a minimum of thirty-six (36") inches. Grantor shall not place anything over or so close to any pipeline, road, or other facility of Grantee as will be likely to interfere with Grantee's access thereto by use of equipment of means customarily employed in the maintenance of pipelines. Grantee to pay for all damage to growing crops, drainage tile and fences of Grantor arising out of the construction or repair of any of the pipelines, roads, and facilities herein authorized to be maintained and operated by Grantee. This easement shall not exceed forty (40') feet for construction and twenty (20') feet permanent easement. Pipelines and disturbed ground not in the permanent road easement to be reseeded at recommended seeding rates per Surface Owner once cleanup is completed.

The foregoing sets out the entire agreement between Grantor and Grantee, and supersedes any prior oral or written agreements or negotiations not set out in writing herein or in the oil and gas lease covering the above described lands. No provisions of this agreement shall be modified, altered or waived except by written amendment executed by the parties or their representatives as set forth below.

For the same consideration, the undersigned agree to account to any party who may be entitled to any portion of the aforementioned sum, and to indemnify and hold harmless El Paso Production Company, its successors and assigns, from any claim by any other party for damages to the above described lands and the improvements and crops and other things situated thereon.

Grantor shall be held harmless from any claim or demand made on the grounds of damage to property or injury to or death of persons, arising out of Grantee's exercise of the rights herein granted.

This agreement shall terminate within six (6) months after cessation of use by Grantee, at which time Grantee agrees to restore the surface of said land as nearly as is reasonably practical to its original condition.

This agreement shall be binding upon the successors and assigns of the parties hereto and shall be deemed to be a covenant running with the lands described above.

IN WITNESS WHEREOF, the GRANTOR and GRANTEE herein named have hereunto set their hand and seal this 11 day of 10, 2005.

Katherine Ann Hartley

  
By: Katherine Ann Hartley

Ent 380881 Bk A456 Pg 41  
Date: 18-OCT-2005 3:49PM  
Fee: \$10.00 Check  
Filed By: CBM  
CAROLYNE MADSEN, Recorder  
DUCHESNE COUNTY CORPORATION  
For: TRANSCONTINENT OIL CO

ACKNOWLEDGEMENT

STATE OF Mass  
COUNTY OF Barnstable

JS

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 11 day of October, 2005, personally appeared Katherine Ann Hartley, to me known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My Commission Expires: 9/11/07  
Notary Public  
My commission expires: September 11, 2007

Ann F. McEneaney  
Notary Public

**DAMAGE SETTLEMENT AND RELEASE**

STATE OF UTAH           §  
                                   §  
 COUNTY OF DUCHESNE §

**Katherine Ann Hartley, 15 Salty Ridge Rd, Orleans, MA 02653, hereafter referred to as "Surface Owner", acknowledges receipt of the sum of Three Thousand and Five Hundred Dollars and 00/100 (\$3,500.00) from El Paso Production Oil & Gas USA, LP, 1001 Louisiana St, Houston, TX 77002, hereafter referred to as "El Paso", being full settlement, satisfaction and discharge of any and all claims against El Paso, its agents, contractors, employees, successors and assigns for any and all injuries or damages of every character and description sustained by Surface Owner or Surface Owner's property as a result of operations associated with the drilling of Katherine 3-29B4 Well to be located in the SE/4SW/4 of Section 29, Township 2 South Range 4 West, USM, Duchesne County, being 40.00 acres of land, more or less.**

In addition, El Paso shall have the option, but not the obligation to land farm the mud cuttings generated by the drilling of the above mentioned well in compliance to the regulations set forth by the Department of Oil Gas and Minerals for the State of Utah

In consideration of the sum paid to Surface Owners as set out above, the undersigned hereby remise, release and forever discharge and give full acquittance to El Paso, its partners, successors and assigns from all and every actions, claim and demand against it as aforesaid.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Clerk's office.

Executed this 11 day of 10, 2005.

**SURFACE OWNER:**  
**Katherine Ann Hartley**

  
 By: Katherine Ann Hartley

Ent 380882 Bk A456 Pg 42  
 Date: 18-OCT-2005 3:49PM  
 Fee: \$10.00 Check  
 Filed By: CBM  
 CAROLYNE MADSEN, Recorder  
 DUCHESNE COUNTY CORPORATION  
 For: TRANSCONTINENT OIL CO

**ACKNOWLEDGEMENT**

STATE OF Mass )  
 COUNTY OF Barnstable ) :SS

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 11 day of October, 2005, personally appeared Katherine Ann Hartley, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.



Ann L. McGrath  
Notary Public

My Commission Expires:

9/6/07

**ANN L. McGRATH, Notary Public**  
My commission expires: September 6, 2007

# **RIGHT-OF-WAY AGREEMENT**

STATE OF UTAH

}  
}:SS  
}

COUNTY OF DUCHESNE

FOR AND IN CONSIDERATION OF TEN & 00/100ths DOLLARS (\$10.00) and other good and valuable consideration, in hand paid to

**Katherine Ann Hartley**  
whose address is, 15 Salty Ridge Rd, Orleans, MA 02653

("GRANTOR"), the receipt and sufficiency of which is hereby acknowledge, does hereby grant to El Paso Production Oil & Gas USA, LP ("GRANTEE"), of 1001 Louisiana St, Houston, Texas 77002, its successors or assigns, a right-of-way to construct, maintain and use a road for the purpose of drilling, operating and maintaining a well or wells for the production of the oil and/or gas, along with the right to lay, construct, maintain, alter, inspect, repair, replace, change the size of, operate, and remove a pipeline and from time to time additional pipeline or pipelines, drips, valves, electrical power lines, whether buried or overhead, cathodic equipment, and all appurtenances convenient for the maintenance and operation of said lines and for the transportation of oil, gas, produced water, or other substances therein, under, on, over and through the premises hereinafter described, and the Grantee is granted the right of ingress and egress, over and across said road and lands for any purpose necessary or incidental to the drilling, operating and maintaining a well or wells owned by Grantee.

The said right-of-way shall be located over and across the following described lands owned by the Grantor in Duchesne County, State of Utah, to-wit:

**T2S-R4W, USB&M Sec. 29: SE/4SW/4, being 40.00 acres of land, more or less**

To have and to hold said easements, rights, and right-of-way unto the said Grantee, its successors and assigns.

Grantee to have the right to select, change or alter the routes of all pipelines and roads herein authorized to be laid under, upon, over and through the above described premises. All pipelines installed hereunder shall be buried a minimum of thirty-six (36") inches. Grantor shall not place anything over or so close to any pipeline, road, or other facility of Grantee as will be likely to interfere with Grantee's access thereto by use of equipment of means customarily employed in the maintenance of pipelines. Grantee to pay for all damage to growing crops, drainage tile and fences of Grantor arising out of the construction or repair of any of the pipelines, roads, and facilities herein authorized to be maintained and operated by Grantee. This easement shall not exceed forty (40') feet for construction and twenty (20') feet permanent easement. Pipelines and disturbed ground not in the permanent road easement to be reseeded at recommended seeding rates per Surface Owner once cleanup is completed.

The foregoing sets out the entire agreement between Grantor and Grantee, and supersedes any prior oral or written agreements or negotiations not set out in writing herein or in the oil and gas lease covering the above described lands. No provisions of this agreement shall be modified, altered or waived except by written amendment executed by the parties or their representatives as set forth below.

For the same consideration, the undersigned agree to account to any party who may be entitled to any portion of the aforementioned sum, and to indemnify and hold harmless El Paso Production Company, its successors and assigns, from any claim by any other party for damages to the above described lands and the improvements and crops and other things situated thereon.

Grantor shall be held harmless from any claim or demand made on the grounds of damage to property or injury to or death of persons, arising out of Grantee's exercise of the rights herein granted.

This agreement shall terminate within six (6) months after cessation of use by Grantee, at which time Grantee agrees to restore the surface of said land as nearly as is reasonably practical to its original condition.

This agreement shall be binding upon the successors and assigns of the parties hereto and shall be deemed to be a covenant running with the lands described above.

IN WITNESS WHEREOF, the GRANTOR and GRANTEE herein named have hereunto set their hand and seal this 11 day of 10, 2005.

Katherine Ann Hartley

  
By: Katherine Ann Hartley

Ent 388881 Bk A456 Pg 41  
Date: 18-OCT-2005 3:49PM  
Fee: \$10.00 Check  
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DUCHESNE COUNTY CORPORATION  
For: TRANSCONTINENT OIL CO

# ACKNOWLEDGEMENT

STATE OF Mass  
COUNTY OF Barnstable

JS

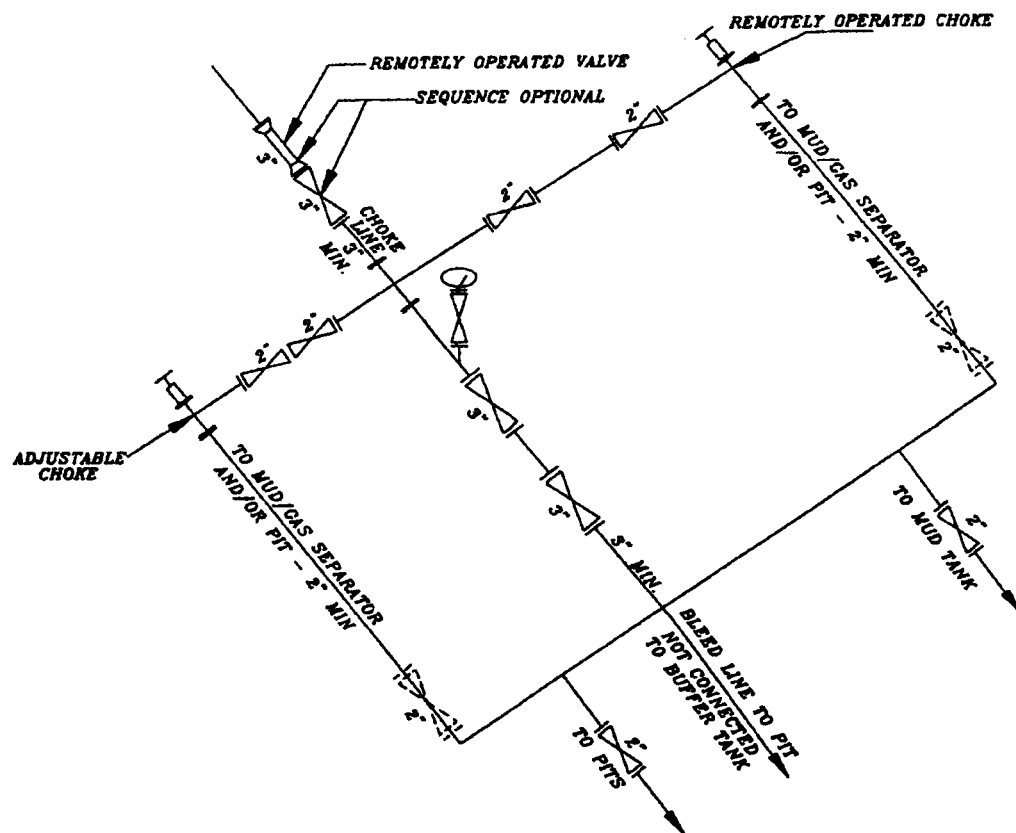
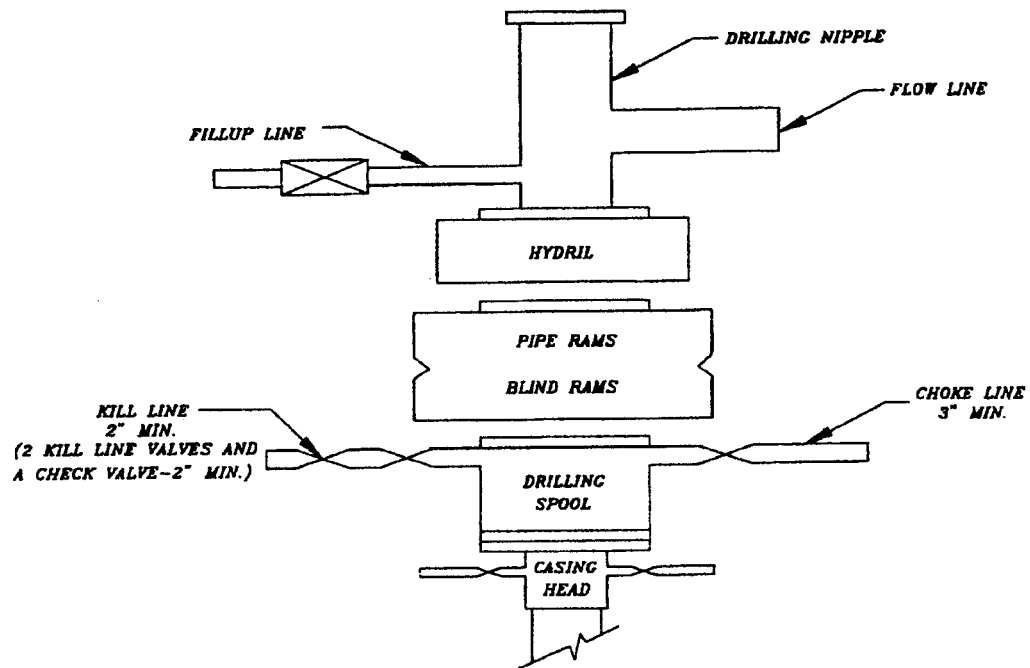
BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 11 day of December, 2005, personally appeared Katherine Ann Hartley, to me known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My Commission Expires: 9/1/07  
ANNE McGRATH, Notary Public  
My commission expires: September 1, 2007

Ann F. McGrath  
Notary Public

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



EL PASO PRODUCTION OIL & GAS COMPANY  
KATHERINE #3-29B4  
SECTION 29, T2S, R4W, U.S.B.&M.

PROCEED IN A NORTHERLY DIRECTION FROM DUCHESNE, UTAH APPROXIMATELY 7.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 9.15 MILES.

# EL PASO PRODUCTION OIL & GAS COMPANY

**KATHERINE #3-29B4**

LOCATED IN DUCHESNE COUNTY, UTAH

SECTION 29, T2S, R4W, U.S.B.&M.

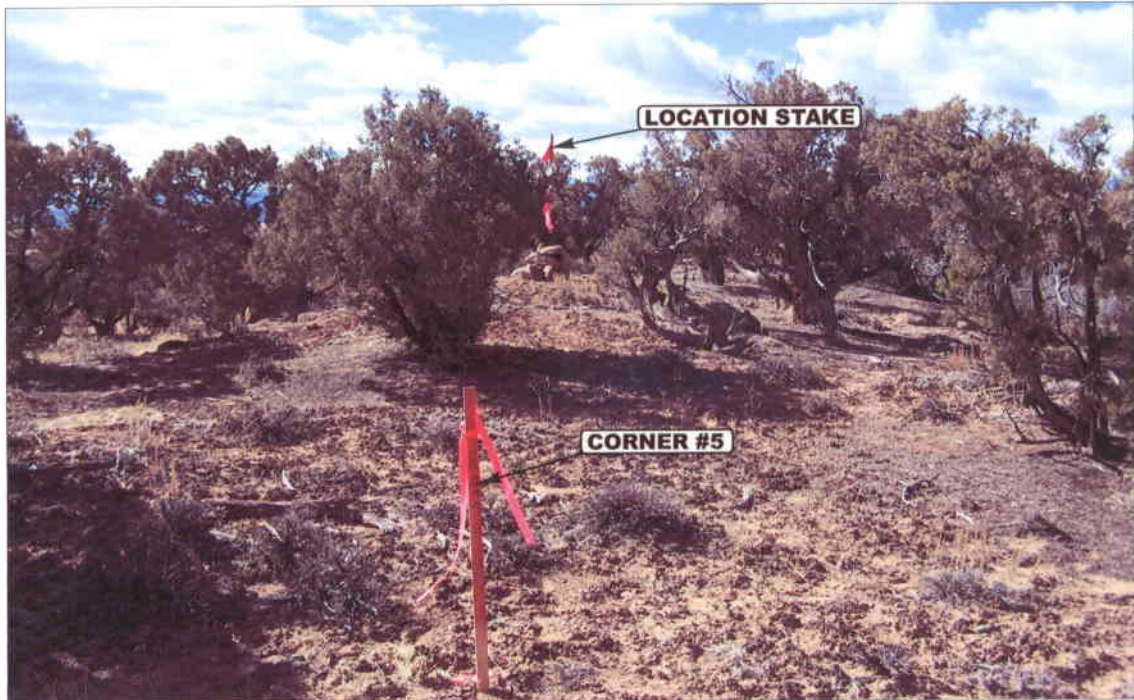


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**05** **27** **05**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: D.A.

DRAWN BY: C.P.

REVISED: 03-17-06

# EL PASO PRODUCTION OIL & GAS COMPANY

FIGURE #1

## LOCATION LAYOUT FOR

KATHERINE #3-29B4  
SECTION 29, T2S, R4W, U.S.B.&M.

670' FSL 1217' FEL

Proposed Access Road

Install CMP  
As Needed

Existing  
Drainage

F-0.2'  
El. 81.4'

F-4.1'  
El. 77.5'

SCALE: 1" = 60'  
DATE: 03-16-06  
Drawn By: C.G.

### NOTE:

Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.

CONSTRUCT  
DIVERSION  
DITCH

Approx.  
Top of  
Cut Slope

Round Corner  
as Needed

Existing  
Drainage

Existing  
Drainage

El. 88.8'  
C-17.2'  
(btm. pit)

FLARE PIT

C-6.3'  
El. 87.9'

C-6.1'  
El. 87.7'

PIPE RACKS

C-7.6'  
El. 89.2'

F-5.4'  
El. 76.2'

Reserve Pit Backfill  
& Spoils Stockpile

15' WIDE BENCH

RESERVE PITS  
(10' Deep)

Total Pit Capacity  
W/2' of Freeboard  
= 1,5490 Bbls.±  
Total Pit Volume  
= 4,280 Cu. Yds

Sta. 0+60

El. 91.5'  
C-19.9'  
(btm. pit)

El. 85.9'  
C-4.3'

175'

POWER

TOOLS

FUEL

Existing  
Drainage

STORAGE  
TANK

Sta. 0+00

Topsoil Stockpile

C-7.6'  
El. 89.2'

C-2.1'  
El. 83.7'

F-6.4'  
El. 75.2'

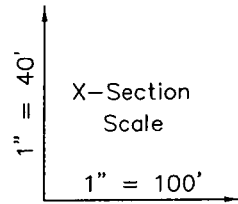
CONSTRUCT  
DIVERSION  
DITCH

Elev. Ungraded Ground at Location Stake = 6189.2'  
Elev. Graded Ground at Location Stake = 6181.6'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

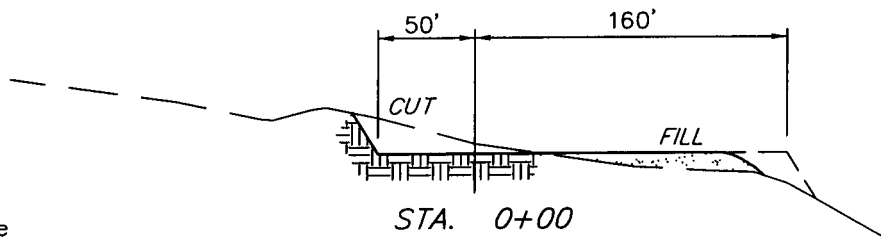
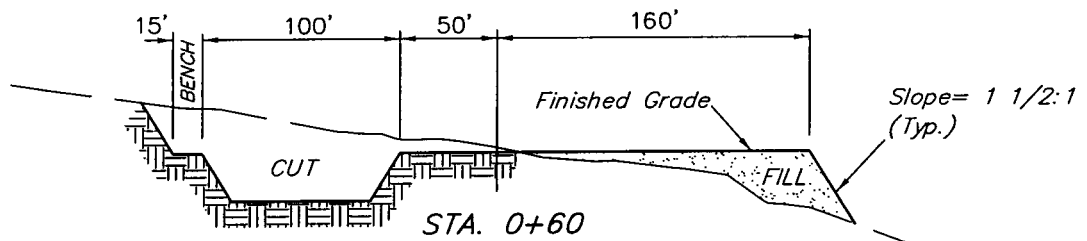
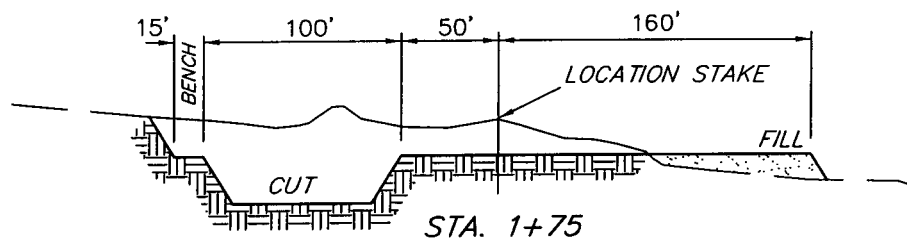
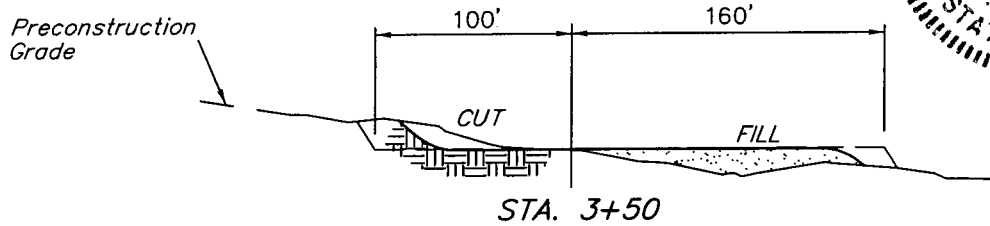
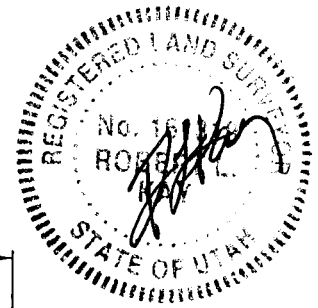
TYPICAL CROSS SECTIONS FOR

KATHERINE #3-29B4  
SECTION 29, T2S, R4W, U.S.B.&M.  
670' FSL 1217' FEL



DATE: 03-16-06

Drawn By: C.G.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

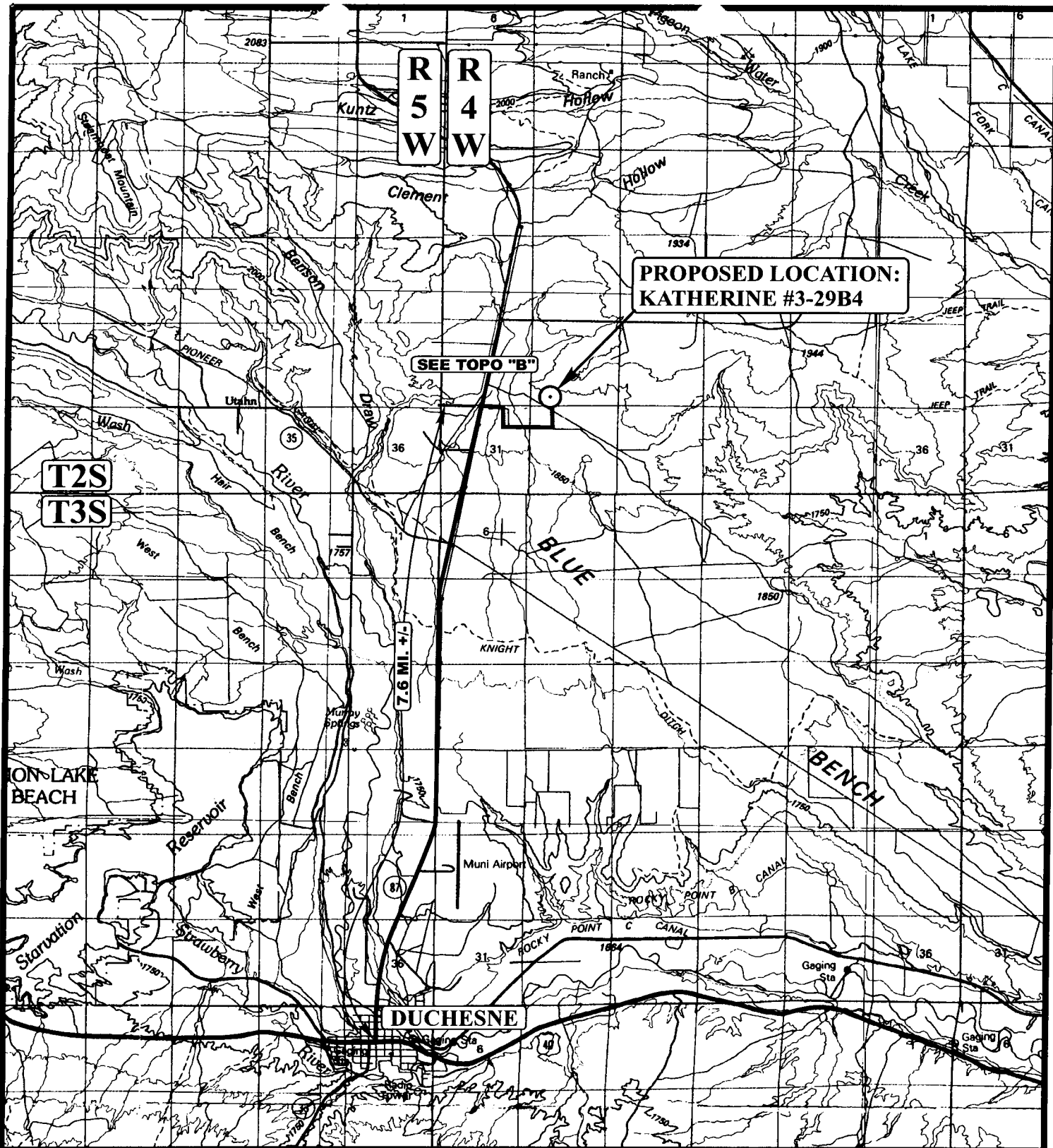
\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 4,350 Cu. Yds.  
Remaining Location = 12,500 Cu. Yds.  
TOTAL CUT = 16,850 CU.YDS.  
FILL = 10,360 CU.YDS.

EXCESS MATERIAL = 6,490 Cu. Yds.  
Topsoil & Pit Backfill = 6,490 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# LEGEND:

○ PROPOSED LOCATION

EL PASO PRODUCTION OIL & GAS COMPANY

KATHERINE #3-29B4

SECTION 29, T2S, R4W, U.S.B.&M.

670' FSL 1217' FWL



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

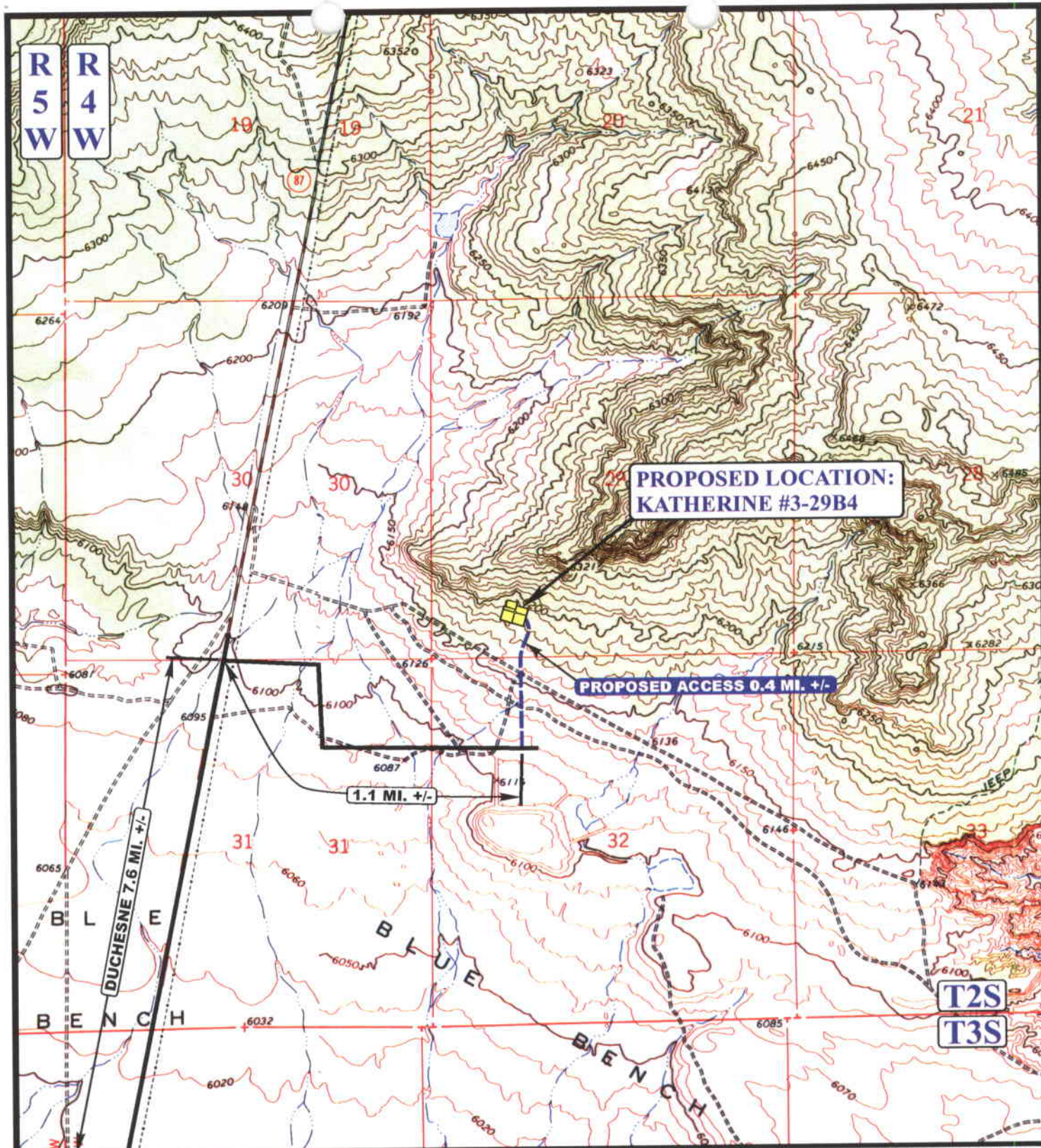


**TOPOGRAPHIC**  
**MAP**

05 27 05  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 03-17-06





# **LEGEND:**

— EXISTING ROAD  
- - - PROPOSED ACCESS ROAD

**EL PASO PRODUCTION OIL & GAS COMPANY**

**KATHERINE #3-29B4**  
**SECTION 29, T2S, R4W, U.S.B.&M.**  
**670' FSL 1217' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



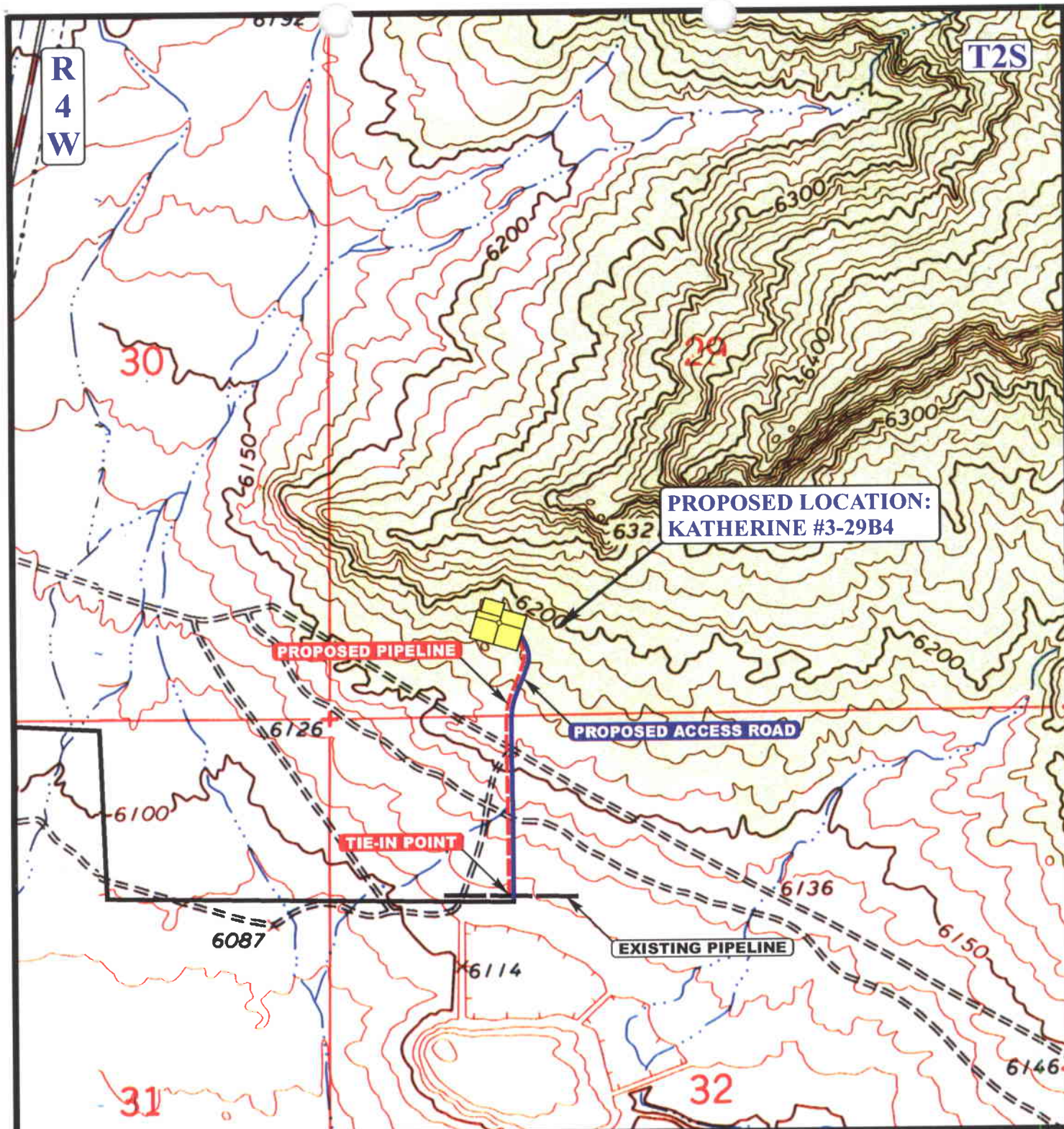
**TOPOGRAPHIC  
MAP**

**05** **27** **05**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 03-17-06

**B**  
**TOPO**





**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,906' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

**N**

**EL PASO PRODUCTION OIL & GAS COMPANY**

**KATHERINE #3-29B4**  
**SECTION 29, T2S, R4W, U.S.B.&M.**  
**670' FSL 1217' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**05 27 05**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 03-17-06

**D**  
**TOPO**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>FEE</b>	6. SURFACE: <b>Fee</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input checked="" type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input checked="" type="checkbox"/> <b>MULTIPLE ZONE</b> <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b>		9. WELL NAME and NUMBER: <b>KATHERINE 3-29B4</b>	
3. ADDRESS OF OPERATOR: <b>1339 EL SEGUNDO NE ALBUQUERQUE NM 87113</b>		10. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>	
PHONE NUMBER: <b>(505) 344-9380</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESW 29 2S 4W</b>	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: <b>553' FSL, 1535' FWL</b> AT PROPOSED PRODUCING ZONE: _____		12. COUNTY: <b>DUCHESNE</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>9.15 MILES NORTHEAST OF DUCHESNE, UT</b>		13. STATE: <b>UTAH</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>553'</b>	16. NUMBER OF ACRES IN LEASE: <b>640</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>640</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>3200'</b>	19. PROPOSED DEPTH: <b>13,250</b>	20. BOND DESCRIPTION: <b>400JU0705</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>6181.8' GR</b>	22. APPROXIMATE DATE WORK WILL START: <b>2/1/2006</b>	23. ESTIMATED DURATION: <b>60 DAYS</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
17 1/2	13 3/8	J-55	54.5#	1,000	5060 POZ	562 SX	1.98 12.5
					PREM +	273 SX	1.17 15.8
12 1/4	9 5/8	N-80	40#	6,500	CBM LT.	287 SX	4.10 10.5
					50/50 POZ	178 SX	1.22 14.35
8 3/4	7	HCP-110	29#	10,300	50/50 POZ	440 SX	1.46 13.5
6 1/8	5	HCP-110	18#	13,250	PREM +	160 SX	1.56 15.6

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) **CHERYL CAMERON** TITLE **REGULATORY ANALYST**

SIGNATURE *Cheryl Cameron* DATE **10/11/2005**

(This space for State use only)

API NUMBER ASSIGNED: **43-013-32923**

APPROVAL:

**RECEIVED**  
**OCT 12 2005**

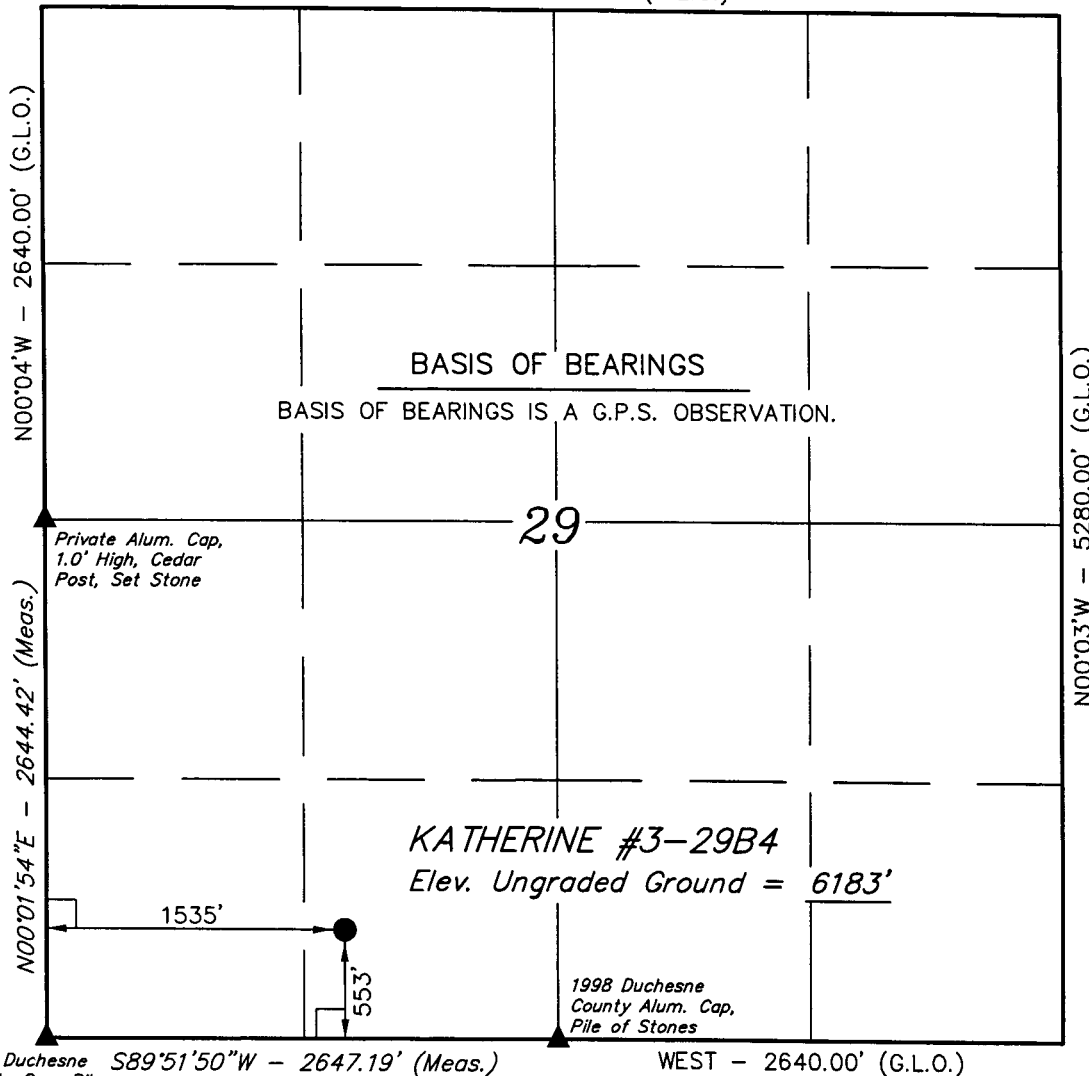
DIV. OF OIL, GAS & MINING

T2S, R4W, U.S.B.&M.

EL PASO PRODUCTION OIL & GAS COMPANY

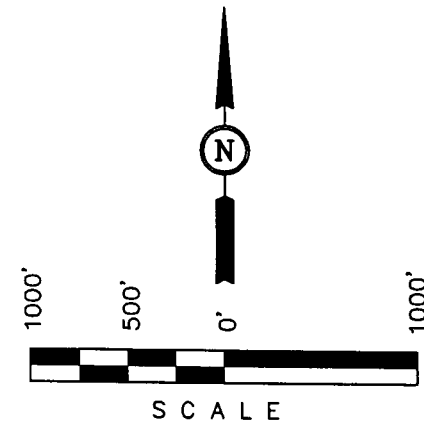
Well location, KATHERINE #3-29B4, located as shown in the SE 1/4 SW 1/4 of Section 29, T2S, R4W, U.S.B.&M., Duchesne County, Utah.

N89°52'W - 5293.20' (G.L.O.)



### BASIS OF ELEVATION

SPOT ELEVATION LOCATED IN THE NE 1/4 OF SECTION 30, T2S, R4W, U.S.B.&M. TAKEN FROM THE TALMAGE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6209 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert H. Hay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO: 161319  
STATE OF UTAH

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
LATITUDE = 40°16'22.22" (40.272839)  
LONGITUDE = 110°21'51.23" (110.364231)  
(AUTONOMOUS NAD 27)  
LATITUDE = 40°16'22.38" (40.272883)  
LONGITUDE = 110°21'48.67" (110.363519)

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-18-05	DATE DRAWN: 06-01-05
PARTY J.F. Z.G. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EL PASO PRODUCTION OIL & GAS COMPANY	

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/23/2006

API NO. ASSIGNED: 43-013-32923

WELL NAME: KATHERINE 3-29B4

OPERATOR: EL PASO PROD OIL & GAS ( N1845 )

PHONE NUMBER: 505-344-9380

CONTACT: CHERYL CAMERON

PROPOSED LOCATION:

N 29 020S 040W

SURFACE: 0670 FSL 1217 FWL

BOTTOM: 0670 FSL 1217 FWL

COUNTY: DUCHESNE

LATITUDE: 40.27321 LONGITUDE: -110.3647

UTM SURF EASTINGS: 554015 NORTHINGS: 4458064

FIELD NAME: ALTAMONT ( 55 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	D.C.D.	4/6/06
Geology		
Surface		

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: WSTC

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 400JU0708 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.  
Unit: \_\_\_\_\_  
☐ R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 139-42  
Eff Date: 4-12-85  
Siting: 660' Fr. ext. wharf & 1320' Fr. other wells.  
☐ R649-3-11. Directional Drill

COMMENTS: Needs Permit (3-cu-cu)

STIPULATIONS: 1-Statement of Basis  
2-Consent Strip #4 (13 3/8" and 9 7/8")

T2S R4W

## ALTAMONT FIELD

CAUSE: 139-42 / 4-12-1985

WIJKART 2-29B4

YOUNG 1-29B4

29

KATHERINE 3-29B4

OPERATOR: EL PASO PROD CO (N1845)

SEC: 29 T2S R. 4W

FIELD: ALTAMONT (55)

COUNTY: DUCHESNE

CAUSE: 139-42 / 4-12-1985

### Field Status

- ☒ ABANDONED
- ☒ ACTIVE
- ☒ COMBINED
- ☒ INACTIVE
- ☒ PROPOSED
- ☒ STORAGE
- ☒ TERMINATED

### Unit Status

- ☒ EXPLORATORY
- ☒ GAS STORAGE
- ☒ NF PP OIL
- ☒ NF SECONDARY
- ☒ PENDING
- ☒ PI OIL
- ☒ PP GAS
- ☒ PP GEOTHERML
- ☒ PP OIL
- ☒ SECONDARY
- ☒ TERMINATED

### Wells Status

- ☒ GAS INJECTION
- ☒ GAS STORAGE
- ☒ LOCATION ABANDONED
- ☒ NEW LOCATION
- ☒ PLUGGED & ABANDONED
- ☒ PRODUCING GAS
- ☒ PRODUCING OIL
- ☒ SHUT-IN GAS
- ☒ SHUT-IN OIL
- ☒ TEMP. ABANDONED
- ☒ TEST WELL
- ☒ WATER INJECTION
- ☒ WATER SUPPLY
- ☒ WATER DISPOSAL
- ☒ DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 24-MARCH-2006

**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** El Paso Production Oil and Gas Company

**WELL NAME & NUMBER:** Katherine #3-29B4

**API NUMBER:** 43-013-32923

**LOCATION:** 1/4,1/4 SW/SW Sec: 29 TWP: 02S RNG: 04W 670 FSL 1217 FWL

**Geology/Ground Water:**

El Paso proposes to set 250 feet of surface casing and 6,500 feet of intermediate casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 2,700 feet. A search of Division of Water Rights records indicates that there are 9 water wells within a 10,000 foot radius of the proposed location. The nearest water well is approximately 1,000 feet from the proposed site. These wells produce water from the Duchesne River Formation and 8 of them less than 525 feet deep. One well which is located approximately 1.5 miles to the southwest is 1,500 feet deep. The wells are listed as being used for irrigation, stock watering and domestic. The proposed casing and cement program should adequately protect the highly used Duchesne River aquifer.

**Reviewer:** Brad Hill

**Date:** 04/06/2006

**Surface:**

The Roosevelt Field Office scheduled and performed a presite meeting on March 6, 2006 to take input and address issues regarding the drilling of this well. Brent Farnsworth was given as the new landowner of record, and was therefore invited to the presite meeting. Mr. Farnsworth says he and his wife own 360 acres and plan to fence it and pasture horses on the property. Therefore, his primary concern or request was that El Paso fences the location and access road to the southern edge of his property. Robert Wilkins with El Paso agreed to that stipulation. This well was closer than 660' from the southern section line and therefore was moved to the present location, or Alternate #2. The move was 318' West and 117' North. Brent Farnsworth did visit this new site and did not have any problems other than the original request to fence the location and access road south.

Several narrow washes do drain across the new location staking and run south, but are very shallow and can be re-routed to accommodate a well pad. There are several sandstone outcroppings to the north and on location, including where the well center was staked. Construction of the location and pit will most likely require some blasting; therefore a liner and pad should be utilized.

**Reviewer:** Dennis L. Ingram

**Date:** March 14, 2006

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 12 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** El Paso Production Oil and Gas Company  
**WELL NAME & NUMBER:** KATHERINE 3-29B4  
**API NUMBER:** 43-013-32923  
**LEASE:** FEE **FIELD/UNIT:** ALTAMONT BLUEBELL  
**LOCATION:** 1/4, 1/4 SW/SW **Sec:** 29 **TWP:** 02S **RNG:** 04W 670 **FSL** 1217 **FWL**  
**LEGAL WELL SITING:** 660 F **SEC. LINE;** 1320 F **ANOTHER WELL.**  
**GPS COORD (UTM):** X =0554022 E; Y =4458067 N **SURFACE OWNER:** Brent Farnsworth

**PARTICIPANTS**

Dennis Ingram (DOGM) Brent Farnsworth (Landowner) John Whiteside (El Paso Landman) Robert Wilkins (El Paso) Trevor Brady (Uintah Engineering)

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

New wellsite is proposed in the Altamont Bluebell Field on Bluebench, approximately 7.6 miles north of Duchesne on US Highway 87, then east 1.2 miles along county road to the Duchesne County Landfill, then north to well staking. This well was restaked and moved northwest to accommodate state spacing rules. The proposed location is on the northern edge of Bluebench and sets against sandstone outcroppings that runs northwest/southeast. The topography to the south of wellsite slopes southward, and is sagebrush/PJ habitat; the topography northward rises several hundred feet and consists of sandstone ledges that lead onto the next bench-type lands.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** Rangeland, potential winter range for mule deer

**PROPOSED SURFACE DISTURBANCE:** Proposed 0.4 miles of new access road plus location measuring 350'x 270' with soil stockpile storage and a portion of the reserve pit outside the described area.

**LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS:** L#1; W#2; Y#1; CB#1; LR#1; LR#2

**LOCATION OF PRODUCTION FACILITIES AND PIPELINES:** Proposed pipeline south along new access road to existing pipeline, production facilities on well pad.

**SOURCE OF CONSTRUCTION MATERIAL:** Native cut and fill using borrowed material

**ANCILLARY FACILITIES:** None requested

**WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS?**  
**(EXPLAIN):** NO

**WASTE MANAGEMENT PLAN:**

Submitted to the Division with the Application to Drill or on record as standard operating plan

**ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Typical pinion/juniper habitat found in region, some sagebrush and open meadows on adjacent lands; potential mule deer winter range, possible elk, coyote, bobcat, rabbit, and other native mammals and birds native to region.

SOIL TYPE AND CHARACTERISTICS: Reddish-brown clay with some fine grained sand and sandstone outcroppings.

SURFACE FORMATION & CHARACTERISTICS: Uinta Formation

EROSION/SEDIMENTATION/STABILITY: active erosion, some sedimentation, no stability problems anticipated

PALEONTOLOGICAL POTENTIAL: None observed during presite

**RESERVE PIT**

CHARACTERISTICS: Proposed on north side of location in cut and measuring 150'x 100'x 10' deep.

LINER REQUIREMENTS (Site Ranking Form attached): 27 points, operator will need to blast reserve pit and therefore a pit liner is mandatory

**SURFACE RESTORATION/RECLAMATION PLAN**

According to Landowner agreement or recontoured and shaped to near original conditions.

SURFACE AGREEMENT: Yes, El Paso claims the original landowner agreement with the previous landowner still applies

CULTURAL RESOURCES/ARCHAEOLOGY: Not done, private or FEE lands

**OTHER OBSERVATIONS/COMMENTS**

Access off county road from the south, county dump also at that point to the south, sandstone outcroppings to the north and on location will need to blast, several small drainages run across the surface and drain to the south,

**ATTACHMENTS**

Photos of this location were taken and placed on file.

Dennis L. Ingram  
DOGM REPRESENTATIVE

March 14, 2006 4:00 PM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Scale  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>2</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**      27      (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

Sensitivity Level II = 15-19; lining is discretionary.

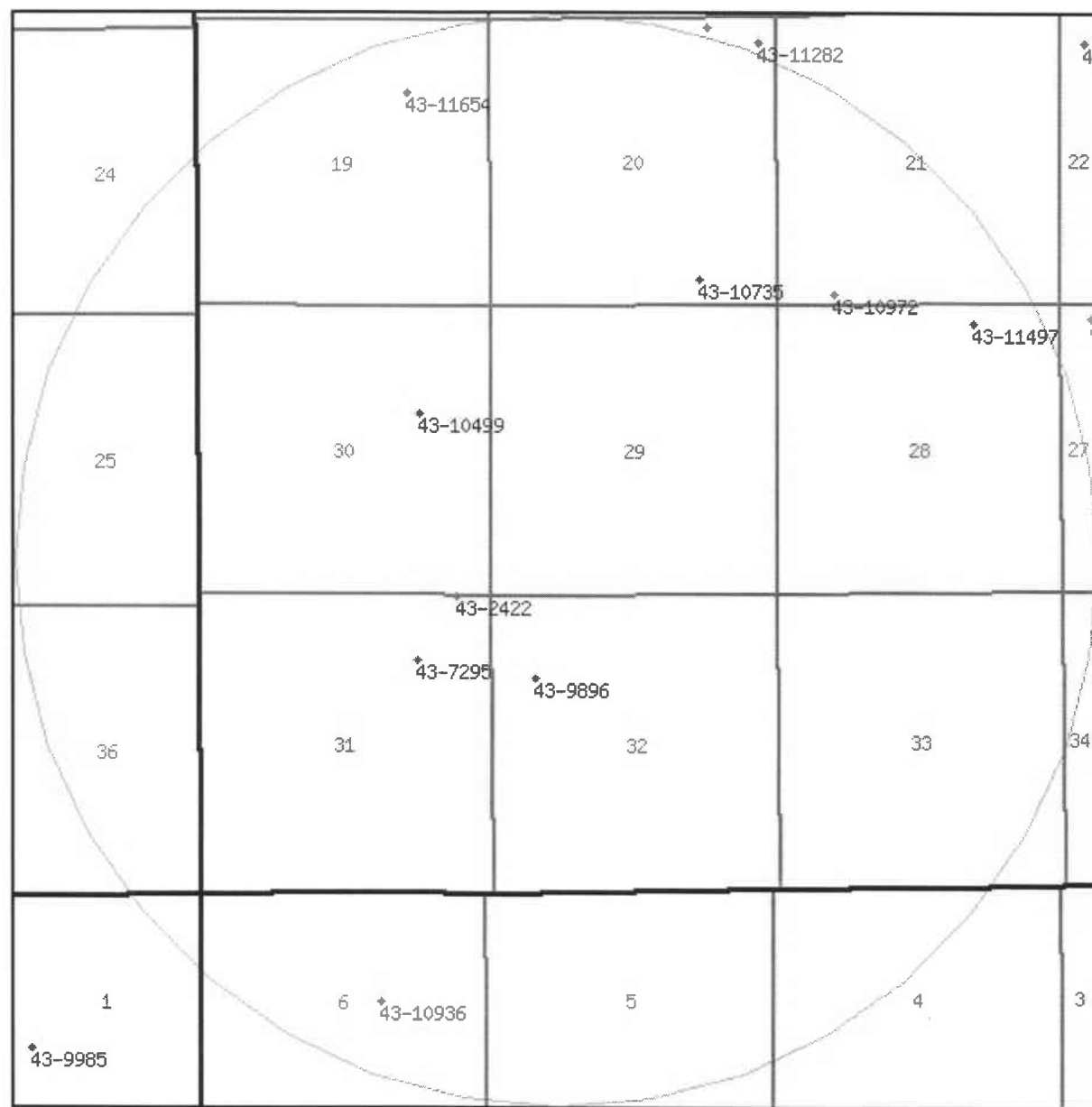
Sensitivity Level III = below 15; no specific lining is required.



## WRPLAT Program Output Listing

Version: 2004.12.30.00      Rundate: 03/21/2006 10:14 AM

Radius search of 10000 feet from a point N670 E1217 from the SW corner, section 29, Township 2S, Range 4W, US b&m  
Criteria:wrtypes=W,C,E podtypes=U status=U,A,P usetypes=all



0 1300 2600 3900 5200 ft

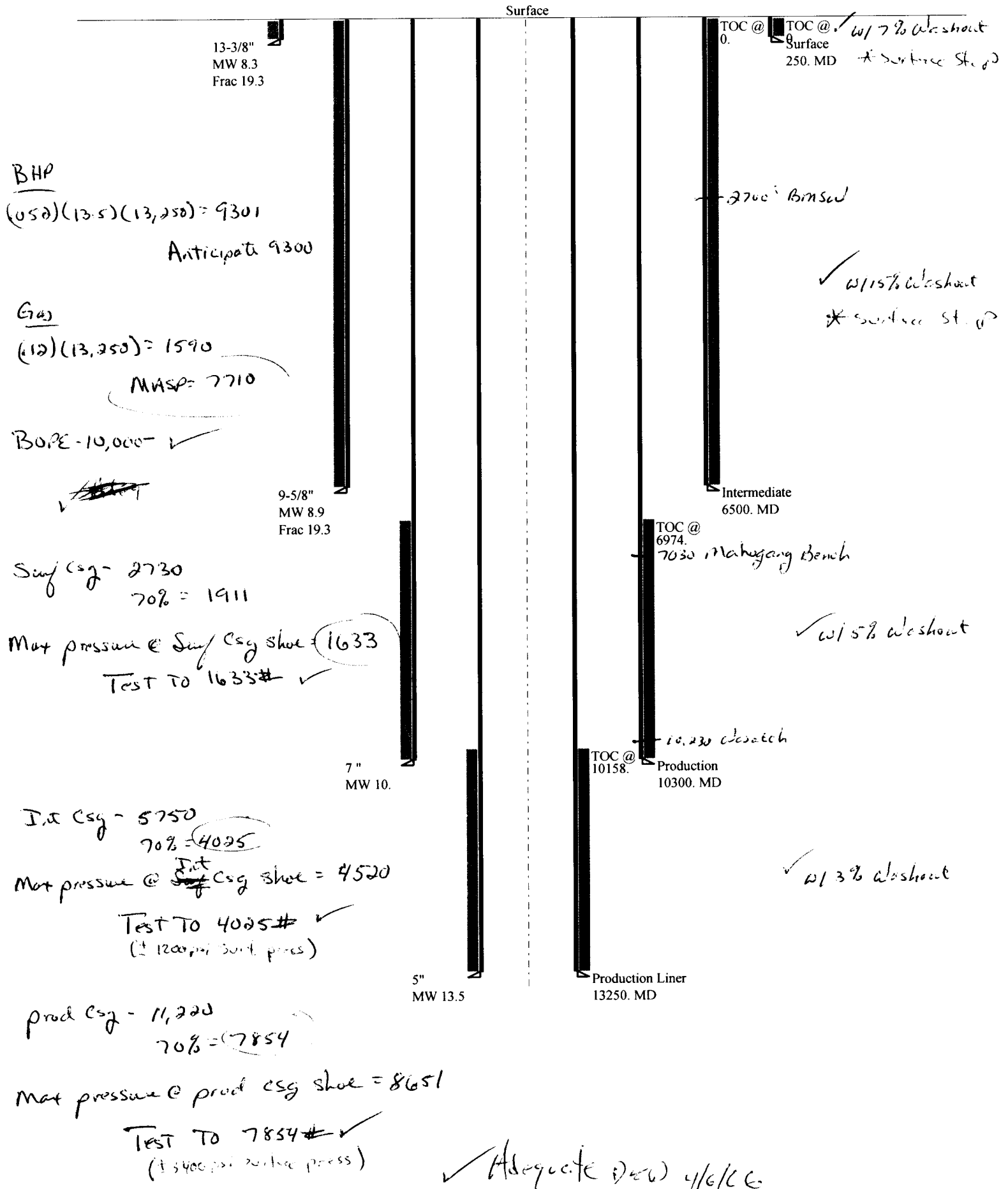
**Water Rights**

<b>WR Number</b>	<b>Diversion Type/Location</b>	<b>Well Log</b>	<b>Status</b>	<b>Priority</b>	<b>Uses</b>	<b>CFS</b>	<b>ACFT</b>	<b>Owner Name</b>
<u>43-10499</u>	Underground S1950 W1320 NE 30 2S 4W US		A	19941125	DI	0.000	1.450	WILLIAM A. ROBINSON 4822 SANTA MONICA #104
<u>43-10735</u>	Underground N440 W1475 SE 20 2S 4W US	<u>well info</u>	A	20030919	D	0.000	0.250	DAVID R. FLORENCE 3431 SOUTH 2300 EAST
<u>43-10831</u>	Underground S260 E550 NW 27 2S 4W US	<u>well info</u>	A	19980529	DI	0.000	1.450	PATSY A. BENNETT 1632 SPRING STREET
<u>43-10936</u>	Underground N665 W1980 E4 06 3S 4W US		A	19990623	DIS	0.000	3.730	FREDERICK BANKS 500 NORTH 500 WEST SP. 24
<u>43-10972</u>	Underground N200 E1050 SW 21 2S 4W US	<u>well info</u>	A	19990914	DIS	0.000	3.730	WES AND MARIA SARGENT P. O. BOX 150
<u>43-11171</u>	Underground S175 W1270 NE 20 2S 4W US	<u>well info</u>	A	20010808	DIS	0.000	4.730	CAROL R. AND MICHAEL S. BENNETT P. O. BOX 730022
<u>43-11272</u>	Underground S600 E440 NW 22 2S 4W US		A	20020705	DIS	0.000	1.480	KENDAL A. AND A. JANE VOORHEES P. O. BOX 18
<u>43-11282</u>	Underground		A	20020809	DIS	0.000	4.730	JOHN RICHARDS JR AND GRACE G. SEIDLITZ

	S450 W320 NE 20 2S 4W US					10451 SOUTH COLUMBINE CIRCLE
<a href="#"><u>43-11497</u></a>	Underground		A	20040120 DI	0.000 0.750	KEN STRALEY
	S350 W1600 NE 28 2S 4W US					P. O. BOX 774
<a href="#"><u>43-11654</u></a>	Underground		A	20050609 DIS	0.000 1.730	DONOVAN D. WILKERSON
	S1330 W1530 NE 19 2S 4W US					3914 SOUTH CLIFFHAVEN LN.
<a href="#"><u>43-2422</u></a>	Underground	<a href="#"><u>well info</u></a>	P	19701013 S	0.015 0.000	GRANT W. AND LOIS L. BLEAZARD
	N10 W660 SE 30 2S 4W US					P.O. BOX 33
<a href="#"><u>43-7295</u></a>	Underground	<a href="#"><u>well info</u></a>	P	19721201 O	0.015 0.000	HUSKY OIL COMPANY
	N1552 W1393 E4 31 2S 4W US					BOX 380
<a href="#"><u>43-9896</u></a>	Underground	<a href="#"><u>well info</u></a>	P	19970710 DO	0.000 0.500	DUCHESNE COUNTY BLUE BENCH LANDFILL
	S1503 E773 NW 32 2S 4W US					C/O MANAGER
<a href="#"><u>43-9985</u></a>	Underground	<a href="#"><u>well info</u></a>	P	19870602 DIS	0.015 1.774	RALPH L. ANDERSON
	S134 E2191 W4 01 3S 5W US					268 EAST 700 SOUTH (11-8)

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## Casing Schematic



Well name:	<b>04-06 El Paso Katherine 3-29B4</b>	
Operator:	<b>El Paso Production</b>	Project ID:
String type:	Surface	43-013-32923
Location:	Duchesne County	

**Design parameters:**
**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 68 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 250 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: -9 psi  
Internal gradient: 0.468 psi/ft  
Calculated BHP 108 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 219 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 6,500 ft  
Next mud weight: 8.900 ppg  
Next setting BHP: 3,005 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 250 ft  
Injection pressure 250 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	250	13.375	54.50	J-55	ST&C	250	250	12.49	26.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	108	1130	10.445	108	2730	25.24	14	514	37.72 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280

Date: April 5, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 250 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

04-06 El Paso Katherine 3-29B4

Operator: **El Paso Production**

String type: Intermediate

Project ID:

43-013-32923

Location: Duchesne County

**Design parameters:****Collapse**

Mud weight: 8.900 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 156 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 0 ft

**Burst**

Max anticipated surface pressure: 4,115 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 4,895 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 5,639 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 10,300 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 5,351 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 6,500 ft  
Injection pressure 6,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6500	9.625	40.00	N-80	LT&C	6500	6500	8.75	517
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3005	3090	1.028	4895	5750	1.17	260	737	2.83 J

Prepared Clinton Dworshak  
by: Utah Div. of Oil & Mining

Phone: 801-538-5280

Date: April 5,2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6500 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>04-06 El Paso Katherine 3-29B4</b>	
Operator:	<b>El Paso Production</b>	Project ID:
String type:	Production	43-013-32923
Location:	Duchesne County	

**Design parameters:**

**Collapse**

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 209 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 6,027 ft

**Burst**

Max anticipated surface pressure: 5,981 psi  
Internal gradient: -0.061 psi/ft  
Calculated BHP 5,351 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.

Neutral point: 8,741 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10300	7	29.00	HCP-110	LT&C	10300	10300	6.059	604.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5351	9200	1.719	5981	11220	1.88	299	797	2.67 J

Prepared Clinton Dworshak  
by: Utah Div. of Oil & Mining

Phone: 801-538-5280

Date: April 5,2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10300 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>04-06 El Paso Katherine 3-29B4</b>		
Operator:	<b>El Paso Production</b>	Project ID:	
String type:	<b>Production Liner</b>	43-013-32923	
Location:	<b>Duchesne County</b>		

**Design parameters:**

**Collapse**

Mud weight: 13.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 250 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 10,158 ft

**Burst**

Max anticipated surface pressure: 7,702 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 9,292 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.  
Neutral point: 10,527 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	13250	5	18.00	P-110	VAM FJL	13250	13250	4.151	485.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	9292	13470	1.450	9292	13940	1.50	239	399	1.67 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280

Date: April 5, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 13250 ft, a mud weight of 13.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

April 6, 2006

El Paso Production Oil and Gas Company  
1339 El Segundo NE  
Albuquerque, NM 87113

Re: Katherine 3-29B4 Well, 670' FSL, 1217' FWL, SW SW, Sec. 29, T. 2 South,  
R. 4 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32923.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor

**Operator:** El Paso Production Oil and Gas Company  
**Well Name & Number** Katherine 3-29B4  
**API Number:** 43-013-32923  
**Lease:** Fee

**Location:** SW SW                      **Sec.** 29                      **T.** 2 South                      **R.** 4 West

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

**2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

**5. Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.**

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: EL PASO OIL & GAS COMPANY

Well Name: KATHERINE 3-29B4

Api No: 43-013-32923 Lease Type: FEE

Section 29 Township 02S Range 04W County DUCHESNE

Drilling Contractor ROCKY MOUNTAIN DRLG RIG # 1

### **SPUDDED:**

Date 04/19/06

Time 2:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by CHERYL CAMERON

Telephone # (505) 344-9380

Date 04/21/2006 Signed CHD

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: EL PASO PRODUCTION O&G COMPANY Operator Account Number: N 1845  
Address: 1339 EL SEGUNDO AVE NE  
city ALBUQUERQUE  
state NM zip 87113 Phone Number: (505) 344-9380

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301332923	KATHERINE 3-29B4		SWSW	29	2S	4W	DUCHESNE
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	15331	4/19/2006			4/27/06	
Comments: SPUD W/ RKY MTN DRLG @ 2:00 PM ON 4/19/06 WSTC — K							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

CHERYL CAMERON

Name (Please Print)

*Cheryl Cameron*

Signature

REGULATORY ANALYST

Title

4/21/2006

Date

RECEIVED

APR 24 2006

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO NE ALBUQUERQU NM 87113		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380		8. WELL NAME and NUMBER: KATHERINE 3-29B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL		9. API NUMBER: 4301332923
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W		10. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 5/31/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: INTERMEDIATE
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	CSG

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

CONTINUE TO DRILL FROM 282' - 6,510' W/ NABORS 445. RUN 9 5/8" 40# N-80 LTC CSG TO 6500'.

PRESS TEST HALLIBURTON LINES TO 4000 PSI. PUMP 21 BBL MUD FLUSH SPACER. LEAD: PUMP 350 SX HI-FILL 16% .1% EX-1, 10# GILSONITE, .25# FLOCELE, .2% HR-7, .3% SALT LEAD. 190 SX 2% GEL, .5% HALAD-322, 5% SALT, .25# FLOCELE. TAIL. DROP PLUG, DISPLACE 472 BBLS WTR. BUMP PLUG @ 875 PSI, FLOAT HELD W/ 2 BBL FLOW BACK. DROP PLUG. FULL RETURNS. M&P 315 SX HI-FILL, 16% GEL, .1% EX-1, 10# GILSONITE, .25# FLOCELE, .2% HR-7, .3% SALT LEAD & TAIL. DROP PLUG & DISPLACE 228 BBLS FW. FLOAT HELD W/ 2 BBLS FLOW BACK.

FULL RETURNS THROUGHTOUT CMT JOB. DENNIS INGRIM, STATE OF UTAH, DOGM, WITNESSED 2ND STAGE AND TOP OUT JOB.

NAME (PLEASE PRINT) CHERYL CAMERON

TITLE REGULATORY ANALYST

SIGNATURE

*Cheryl Cameron*

DATE 6/1/2006

(This space for State use only)

JUN 06 2006

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEE</b>
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
3. ADDRESS OF OPERATOR: <b>1339 EL SEGUNDO NE      ALBUQUERQUE      NM      87113</b>		7. UNIT or CA AGREEMENT NAME:  
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>670' FSL, 1217' FWL</b>		8. WELL NAME and NUMBER: <b>KATHERINE 3-29B4</b>
5. PHONE NUMBER: <b>(505) 344-9380</b>		9. API NUMBER: <b>4301332923</b>
6. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>		10. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>

FOOTAGES AT SURFACE: **670' FSL, 1217' FWL**

COUNTY: **DUCHESNE**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSW 29 2S 4W**

STATE: **UTAH**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start:  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:  <b>6/15/2006</b>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u><b>PRODUCTION CSG</b></u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

**CONTINUE DRILLING F/ 6510' - 10,303'. RUN 7" 29# LT&C CSG TO 10,303'. M&P 155 SX 50/50 POZ+, 11.0 PPG, 3.81 YIELD LEAD. TAIL W/ 135 SX 13.5 PPG, 1.46 YIELD. FLOATS HELD. RD HALLIBURTON.**

NAME (PLEASE PRINT) **CHERYL CAMERON**

TITLE **REGULATORY ANALYST**

SIGNATURE

*Cheryl Cameron*

DATE **6/20/2006**

(This space for State use only)

**RECEIVED**  
**JUN 22 2006**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEE</b>
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO NE CITY <b>ALBUQUERQUE</b> STATE <b>NM</b> ZIP <b>87113</b>		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: <b>(505) 344-9380</b>		8. WELL NAME and NUMBER: <b>KATHERINE 3-29B4</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>670' FSL, 1217' FWL</b>		9. API NUMBER: <b>4301332923</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSW 29 2S 4W</b>		10. FIELD AND POOL, OR WILDCAT: <b>ALTAMONT/BLUEBELL</b>
COUNTY: <b>DUCHESNE</b>		STATE: <b>UTAH</b>

### CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate)  Approximate date work will start: <b>5/20/2006</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input checked="" type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only)  Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ATTACHED IS THE AMENDED 7" CSG PROGRAM, AS DISCUSSED W/ CLINTON DWORSHAK, STATE OF UTAH, DOGM, ON 4/24/06.

(7" line -> 1000' not 1200' true)

COPIES SENT TO OPERATOR  
DATE: 9-8-06  
BY: (#1)

NAME (PLEASE PRINT) <b>CHERYL CAMERON</b>	TITLE <b>REGULATORY ANALYST</b>
SIGNATURE <u>Cheryl Cameron</u>	DATE <b>4/26/2006</b>

(This space for State use only)

OFFICE OF THE  
STATE ENGINEER  
DIVISION OF OIL, GAS AND MINING  
4/28/06  
D. St. H. 2

RECEIVED  
APR 27 2006

Company Name: El Paso Exploration & Production  
Well Name: **Katherine 3-29B4**  
Field, County, State: Altamont - Bluebell, Duchesne, Utah  
Surface Location: 670' FSL, 1,217' FWL, SW/SW SEC. 28, T2S, R4W  
Objective Zone(s): Green River, Wasatch  
BOPE Info: 13-5/8" 3M double BOP stack and 3M kill lines and choke manifold 25  
9-5/8" 5M triple BOP stack and 5M kill lines and choke manifold 6,500

Date: April 28, 2006  
TD: 13,250' MD/TVD  
AFE #: 105425  
BHL: Straight Hole  
Elevation: 6,182'

[illegible]

**DRILLING PROGRAM****CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
SURFACE	9-5/8"	0 - 6,500'	40.00	N-80	LTC	5,750	3,090	916,000
						1.58	1.02	2.54
DRILLING LINER	7"	6,500' - 10,000'	29.00	HCP-110	LTC	11,220	8,530	797,000
						2.05	1.59	2.00
PRODUCTION LINER	5"	10,000' - 16,000'	10.70	P-110	Hi-Fill	1.52	1.07	1.07

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	Stage 1: Lead	3,300'	Halliburton Hi-Fill	350	30%	11 lbm/gal	3.86 ft3/sx
		Tail 500'	50/50 Poz Premium AG + 2% Bentonite + 0.6% Halad(R)-322 + 5% bwow Salt + 0.25 lbm/sx Flocele	190	30%	14.35 lbm/gal	1.21 ft3/sx
	Stage 2: Lead	2,859'	300 sx Halliburton Hi-Fill	300	30%	11 lbm/gal	3.86 ft3/sx
		Tail 141'	Premium - AG (94 lbm/sx)	50	30%	15.8 lbm/gal	1.15 ft3/sx
	DRILLING LINER	2,500'	Halliburton Hi-Fill	110	15%	11 lbm/gal	3.86 ft3/sx
		Tail 3,000'	50/50 Poz Premium AG + 2% Bentonite + 0.2% CFR-S + 0.2% HR-10 + 0.4% Halad-344 + 0.25 lbm/sx Flocele	380	15%	13.6 lbm/gal	1.30 ft3/sx
PRODUCTION LINER		3,000'	50/50 Poz Premium AG + 2% Bentonite + 0.2% CFR-S + 0.2% HR-10 + 0.4% Halad-344 + 0.25 lbm/sx Flocele	380	15%	13.6 lbm/gal	1.30 ft3/sx

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Float shoe, 1 joint, float collar. Centralize 5' above shoe & 5 centralizers every third collar. Thread lock FE & bottom joint. DV tool at 3,000'
INTERMEDIATE	Float shoe, 1 joint, float collar. Centralize every 4th joint to 8000'. Thread lock all FE.
PRODUCTION	Float shoe, 1 joint, float collar. Centralize every 4th joint to 16,000'. Thread lock all FE.

PROJECT ENGINEER(S):

Oscar Peters, Sam Bradley

MANAGER:

Carl Lakey

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

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1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
EL PASO PRODUCTION OIL AND GAS COMPANY

3. ADDRESS OF OPERATOR:  
1339 EL SEGUNDO NE ALBUQUERQU NM 87113

PHONE NUMBER:  
(505) 344-9380

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 670' FSL, 1217' FWL

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
KATHERINE 3-29B4

9. API NUMBER:  
4301332923

10. FIELD AND POOL, OR WILDCAT:  
ALTAMONT/BLUEBELL

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OPERATOR PROPOSES TO RECEND THE SUNDRY NOTICE DATED 4/26/06 REGARDING THE 7" CSG LINER & CMT PROGRAM BACK TO THE ORIGINAL DRILLING PLAN APPROVED IN THE APPLICATION FOR PERMIT TO DRILL.

COPY SENT TO OPERATOR  
Date: 9-8-06  
Initials: (Hr)

NAME (PLEASE PRINT) CHERYL CAMERON

TITLE REGULATORY ANALYST

SIGNATURE

*Cheryl Cameron*

DATE 5/17/2006

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 5/22/06  
BY: [Signature]  
(See Instructions on Reverse Side)

MAY 18 2006

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

Change of Operator (Well Sold)

**X Operator Name Change**

The operator of the well(s) listed below has changed, effective:

7/1/2006

**FROM: (Old Operator):**

N1845-El Paso Production O&G Company

1001 Louisiana Street

Houston, TX 77002

Phone: 1 (713) 420-2300

**TO: ( New Operator):**

N3065-El Paso E&P Company, LP

1001 Louisiana Street

Houston, TX 77002

Phone: 1 (713) 420-2131

**CA No.**

**Unit:**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/5/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/5/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/30/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 2114377-0181
5. If **NO**, the operator was contacted on: \_\_\_\_\_
- 6a. (R649-9-2)Waste Management Plan has been received on: \_\_\_\_\_ requested 7/18/06
- 6b. Inspections of LA PA state/fee well sites complete on: ok
- 6c. Reports current for Production/Disposition & Sundries on: \_\_\_\_\_
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/14/2006

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 7/19/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/19/2006
3. Bond information entered in RBDMS on: 7/19/2006
4. Fee/State wells attached to bond in RBDMS on: 7/19/2006
5. Injection Projects to new operator in RBDMS on: 7/19/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 7/5/2006

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 400JU0708
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a applicable wells moved
- The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/20/2006

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

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1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: MULTIPLE LEASES
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY N1845		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380		8. WELL NAME and NUMBER: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED
COUNTY: UINTAH & DUCHESNE		STATE: UTAH

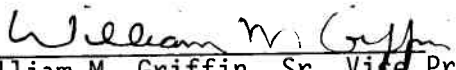
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

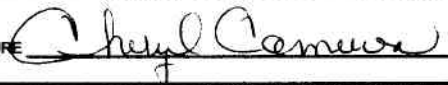
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PLEASE BE ADVISED THAT EL PASO PRODUCTION OIL AND GAS COMPANY (CURRENT OPERATOR) HAS TRANSFERRED ITS OPERATORSHIP TO EL PASO E&P COMPANY, L.P. (NEW OPERATOR) EFFECTIVE JUNE 30, July 1, 2006 AND THAT EL PASO E&P COMPANY, L.P. IS CONSIDERED TO BE THE NEW OPERATOR OF THE ATTACHED WELL LOCATIONS.

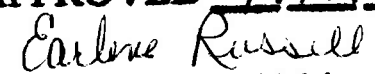
EL PASO E&P COMPANY, L.P. IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASED LANDS. BOND COVERAGE IS PROVIDED BY THE STATE OF UTAH STATEWIDE BLANKET BOND NO. 400JU0705, BUREAU OF LAND MANAGEMENT NATIONWIDE BOND NO. 103601420, AND BUREAU OF INDIAN AFFAIRS NATIONWIDE BOND NO. 103601473.

El Paso E & P Company, L. P. N3065  
1001 Louisiana  
Houston, TX 77002

  
William M. Griffin, Sr. Vice President

NAME (PLEASE PRINT) CHERYL CAMERON	TITLE AUTHORIZED REGULATORY AGENT
SIGNATURE 	DATE 6/20/2006

(This space for State use only)

APPROVED 7/19/06  
  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(5/2000)

(See Instructions on Reverse Side)

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JUL 05 2006  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1099 18TH ST, STE 1900 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 291-6400		8. WELL NAME and NUMBER: KATHERINE 3-29B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL		9. API NUMBER: 4301332923
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

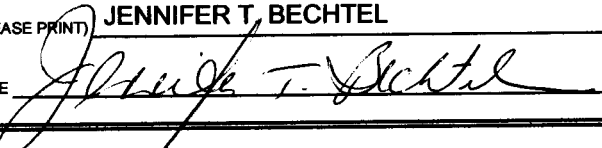
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/9/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>NEW COMPLETION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OPERATOR CONTINUED COMPLETION OF THE SUBJECT WELL 8/30/06 - 9/9/2006 AS FOLLOWS:

SET PKR @ 11,280', EOT @ 11,300'. PRESSURE TEST CASING & PKR TO 1000 PSI. OK. WELL ON PRODUCTION 9/9/2006 WHILE AWAITING LAST STAGE OF COMPLETION.

NAME (PLEASE PRINT) JENNIFER T. BECHTEL	TITLE ASSOCIATE ANALYST
SIGNATURE 	DATE 10/2/2006

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OCT 03 2006  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO NE CITY ALBUQUERQUE STATE NM ZIP 87113	7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380	8. WELL NAME and NUMBER: KATHERINE 3-29B4
	9. API NUMBER: 4301332923
	10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL COUNTY: DUCHESNE QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W STATE: UTAH
--

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 4/19/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROCKY MTN DRLG. DRILL 24" HOLE 20' DEEP. SET 20" CONDUCTOR IN 2 YDS READY-MIX CMT. DRILLED RATHOLE 25' DEEP & LINED W/ 15" 16GA CULVERT.

SPUD @ 2:00 PM 4/19/06.

NAME (PLEASE PRINT) CHERYL CAMERON	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 4/21/2006

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

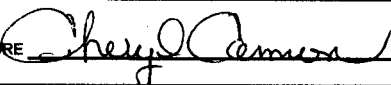
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1330 EL SEGUNDO NE CITY ALBUQUERQUE STATE NM ZIP 87113		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380		8. WELL NAME and NUMBER: KATHERINE 3-29B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL QTR/4TR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W		9. API NUMBER: 4301332923
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL
		COUNTY: DUCHESNE STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 4/27/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SURF CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

DRILLED 17 1/2" HOLE 282' DEEP. SET 13 3/8" W/ GUIDE SHOE, 3 CENTRALIZERS, AND BAFFLE PLATE, SET @ 224'. CMT W/ 350 SX GLASS G 2% CACL W/ 1/4#/SK FLOCELE, 1.15 YIELD, 15.8 PPG, 4.97 WTR. 31 BC TO SURF.

NAME (PLEASE PRINT) CHERYL CAMERON	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 4/28/2006

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**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 7

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**REPORT OF WATER ENCOUNTERED DURING DRILLING**

---

Well name and number: KATHERINE 3-29B4

API number: 4301332923

Well Location: QQ SWSW Section 29 Township 2S Range 4W County DUCHESNE

Well operator: EL PASO PRODUCTION OIL & GAS COMPANY

Address: 1339 EL SEGUNDO AVE NE

city ALBUQUERQUE state NM zip 87113

Phone: 344-9380

Drilling contractor: ROCKY MOUNTAIN DRILLING

Address: \_\_\_\_\_

city VERNAL state UT zip 84066

Phone: 838-5033

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	100	7 BPH	FRESH

Formation tops: (Top to Bottom)	1 _____	2 _____	3 _____
	4 _____	5 _____	6 _____
	7 _____	8 _____	9 _____
	10 _____	11 _____	12 _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

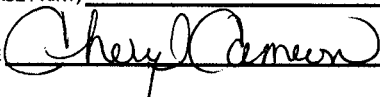
---

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) CHERYL CAMERON

TITLE REGULATORY ANALYST

SIGNATURE



DATE

4/28/2006

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO E&P COMPANY, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO NE CITY ALBUQUERQUE STATE NM ZIP 87113	7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (505) 344-9380	8. WELL NAME and NUMBER: KATHERINE 3-29B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL	9. API NUMBER: 4301332923
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W	10. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/11/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: PRODUCTION LINER
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

CONTINUE DRLG F/ 10,303' - 13,260'. RUN 5" 18# HCP-110 LINER W/ 3 1/2" DRILL STRING. PUMP 30 BBS SPACER 14.2# @ 3 BPM. PUMP 50 BBS LEAD CMT @ 14.5 PPG @ 3 BPM. PUMP 56 BBS TAIL @ 14.5 PPG @ 3 BPM. DROP PLUG. DISPLACE W/ 10 BW @ 2-3 BPM. DISPLACE W/ 55 BBS MUD 2-3 BPM. DISPLACE W/ 9 BBS MUD 1-2 BPM. SHEARED LINER WIPER PLUG. DISPLACE W/ 50 BBS 2-3 BPM. BUMPED PLUG @ 700-1000 PSI. FLOATS HELD.

NAME (PLEASE PRINT) CHERYL CAMERON

TITLE REGULATORY ANALYST

SIGNATURE

DATE 7/18/2006

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**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO NE CITY ALBUQUERQU STATE NM ZIP 87113		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL		8. WELL NAME and NUMBER: KATHERINE 3-29B4
5. PHONE NUMBER: (505) 344-9380		9. API NUMBER: 4301332923
6. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL		10. FIELD AND POOL, OR WILDCAT: ALTAMONT/BLUEBELL

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/23/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>NEW COMPLETION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OPERATOR COMPLETED THE SUBJECT WELL 8/1/06 - 8/29/06 AS FOLLOWS:

PERF FROM 12,901' - 12,412. SHOT 55 INTERVALS, 165 HOLES 3-1/8" GUN 22.7 GRAM CHARGES, 3 SPF @ 120 PHASING. PMP 1050 GAL PAD 2% KCL WTR. BRK BACK @ 5100 PSI. PMP 5000 GAL 15% HCL ACID W/ 130 BIO BALLS. FLUSH W/ 17750 GAL 2% KCL WATER. AVG PRESS 5150 PSI, MAX PRESS 5975 PSI, AVG RATE 14.2 BPM, MAX RATE 15.6. GOOD DIVERSION. ISIP 4750 PSI 5 MIN, 4650 PSI 10 MIN, 4604 PSI 15 MIN, 4584 PSI.

START JOB: ACID & CARBOPROP 20/40 STAGED FRAC, TOTAL FLUID PMPED 95 BBLS, 15% HCL, 2561 BBLS GEL, & FLUSH 73070 LBS PROP. AVG RATE 45 BPM, MAX RATE 51.6, AVG PRESS 5775, MAX PRESS 6580 PSI. FAIR DIVERSION. ISIP-5000 PSI, 5-MIN 4943, 10 MIN 4918 PSI, 15 MIN 4906 PSI. SET CBP @ 12390'. SPOT 10' CMT ON PLUG. PRESS TEST TO 4500 PSI, OK.

PERF 12,335' - 11,970'. SHOT 65', 195 HOLES. START JOB: BROKE DWN W/ 5000 GAL ACID, 250 BIO BALLS FOR DIVERSION. AVG RATE 20 BPM, PRESS 3200 PSI. START FRAC: TOTAL PROPPANT 70640#. TOTAL FLUID 4000 GAL 15% HCL; GEL SLURRY & FLUSH TOTAL 67543 GAL AVG RATE 44 BPM. FLUSH TOTAL FLUID 4000 GAL 15% HCL GEL SLURRY & FLUSH TOTAL 67543 GAL, AVG RATE 44 BPM, MAX RATE 50 BPM, AVG PRESS 5100 PSI, MAX PRESS 6234 PSI, ISIP 4800 PSI, 5 MIN 4611 PSI, 10 MIN 4545, 15 MIN 4480.

NAME (PLEASE PRINT) <u>CHERYL CAMERON</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE 	DATE <u>8/23/2006</u>

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FORM 9

PAGE 2

KATHERINE 3-29B4  
SWSW SEC. 29, T2S, R4W  
NEW COMPLETION

SET CBP @ 11960'. DUMP BAIL 10' CMT ON TOP CBP.

PERF FROM 11921'- 11,389'. SHOT 105', 315 HOLES. OPEN WELL TO PIT. TURNED TO PROD FACILITIES  
6:00 12 HRS MADE 0 OIL, 311 WATER, 30 MCF. TEST WELL. WELL FLOWING TO PROD FACILITIES  
8/22/06.

PUMP ACID BREAK DOWN W/ 5000 GAL 15% HCL ACID & 475 BIO/BALL SEALERS F/ DIVERSION .  
PUMPED ACID @ 6 BPM @ 4300 AVG PSI. OVER FLUSH 10 BBLS TO BTM PERF. FLUSH AVG RATE 26  
BPM. AVERAGE PSI 5105# .VERY LITTLE BALL ACTION. SURGE BALLS OFF PERFS.

FRAC WELL W/ 140,000 LBS 20/40 CARBO PROP TAGGED W/ RADIOACTIVE TRACER. PUMPED 4465 TTL  
BBLS.AVG TREATING PSI 5590#, AVG RATE 47.9, ISIP 5260#, 5 MIN SICP 5010#, 10 MIN SICP 4980#, 15 MIN  
SICP 4918#.

8/29/2006 - WELL FLOWING. 24 HOUR TEST - 1021 BBLS OIL, 440 BBLS WATER, 1615 MCF GAS. CSG  
PRESS 2275, 18/64 CHOKE.

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SEP 08 2006

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <input type="text"/>
b. TYPE OF WORK:		NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>
			DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="text"/>	
2. NAME OF OPERATOR: El Paso E&P Company, LP					
3. ADDRESS OF OPERATOR: 1099 18th St, Ste 1900 CITY Denver STATE CO ZIP 80202				PHONE NUMBER: (303) 291-6400	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 670' FSL, 1217' FWL  AT TOP PRODUCING INTERVAL REPORTED BELOW: same  AT TOTAL DEPTH: same					
5. LEASE DESIGNATION AND SERIAL NUMBER: Fee					
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A					
7. UNIT or CA AGREEMENT NAME N/A					
8. WELL NAME and NUMBER: Katherine 3-29B4					
9. API NUMBER: 4301332923					
10. LEASE AND POOL, OR WILDCAT Altamont					
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W					
12. COUNTY Duchesne				13. STATE UTAH	

14. DATE SPURRED: 4/19/2006	15. DATE T.D. REACHED: 7/2/2006	16. DATE COMPLETED: 11/13/2006	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 6181.6' GL
18. TOTAL DEPTH: MD 13,260 TVD 13,260		19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  CBL, COMP ZDL/NEUTRON/GR/CAL, HDIL/GR/CAL				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4"	9 5/8 N80	40	0	6,510		HiFill 875	495	Surface	N/A
8 3/4"	7" P110	29	0	10,313		HiFill 290	140	8350 Cal	N/A
7"	5" P110	18	10,017	13,248		Cemnet	106	11200 Cal	N/A

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	7,625							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	10,238	12,901	10,238	12,901	12,412 12,901	3 1/8"	165	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					11,970 12,335	3 1/8"	195	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					11,389 11,921	3 1/8"	315	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
12412 - 12901	73,070 lbs 20/40 Carboprop; 5000 gal 15% HCL
11970 - 12335	70,640 lbs 20/40 Carboprop; 4000 gal 15% HCL
11389 - 11921	140,000 lbs 20/40 Carboprop; 5000 gal 15% HCL

**29. ENCLOSED ATTACHMENTS:**

- |   |  |                                       |   |
|---|--|---------------------------------------|---|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS                         | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT   | <input type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS   | <input type="checkbox"/> OTHER: _____ |   |

**30. WELL STATUS:**

**Producing**

**RECEIVED**

**FEB 08 2007**

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/21/2006	TEST DATE: 11/10/2006	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 47	GAS – MCF: 75	WATER – BBL: 63	PROD. METHOD: Flowing
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY 44.60	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Producing

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	6,038
				Mahogany Bench	6,997
				Lower Green River	8,458
				Wasatch	10,238

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) JENNIFER T BECHTEL

TITLE ASSOCIATE ANALYST

SIGNATURE

DATE 1/25/2007

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1099 18TH ST, STE 1900 CITY DENVER STATE CO ZIP 80202	7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 291-6400	8. WELL NAME and NUMBER: KATHERINE 3-29B4
10. FIELD AND POOL, OR WILDCAT: ALTAMONT	9. API NUMBER: 4301332923

4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W	COUNTY: DUCHESNE STATE: UTAH
---	---------------------------------

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 3/1/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
OPERATOR REQUESTS APPROVAL TO REPERFORATE AND STIMULATE THE WASATCH FORMATION FROM 10,985' TO 11,365' IN ACCORDANCE WITH THE ATTACHED PROCEDURES.

NAME (PLEASE PRINT) JENNIFER T. BECHTEL TITLE ASSOCIATE ANALYST  
SIGNATURE *Jennifer T. Bechtel* DATE 2/15/2007

(This space for State use only)

APPROVED BY THE STATE  
DATE: 3/8/07  
BY: *[Signature]*

(See Instructions on Reverse Side)

RECEIVED  
FEB 20 2007

DIV. OF OIL, GAS & MINING

# El Paso Production Company

## Katherine 3-29B4

API #: 4301332923  
Sec. 16, T2S – R3W  
Altamont Bluebell Field  
Duchesne County, Utah

### Procedure:

1. MIRU WO rig. Pump heated 2% KCl water as needed to help unseat pump. Unseat pump and POOH with rods and pump.
2. ND wellhead, NU BOP. Release 7" TAC @ 7,296' and TOH with tubing and BHA.
3. PU and TIH with 6" bit and 7" casing scraper to top of liner @ 10,017'. TOOH w/ bit and scraper.
4. PU and TIH with 4-1/8" bit and 5" casing scraper to 11,410'. TOOH w/ bit and scraper.
5. RU wireline unit and RIH with CBP and set @ 11,384'. POOH. Dump bail 10' of cement on CBP. POOH.
6. Pressure test casing to 4,000 psi for 30 minutes. If the casing does not test, consider isolating a possible leak with a bridge plug and packer and performing remedial action.
7. RU wireline with 5k lubricator and test to 5,000 psi with water. RIH and shoot squeeze holes at 11,130' with 3-1/8" HSC, 22.7 gm charges, 3 jspf and 120° phasing. All perforations are to be correlated to the High Definition Induction Log/ Compensated Z-Densilog/ Compensated Neutron Log dated July 5, 2006. POOH.
8. RIH with CICR and set @ 11,080'. POOH and RD wireline.
9. TIH with +/- 1,200' of 2-3/8", 4.7#/ft N-80 tubing followed by 2-7/8", 6.5 #/ft N-80 tubing (TOL @ 10,017') and sting into CICR. Pressure test annulus to 1,000 psi. Establish injection rate and pressure into squeeze holes with 2% KCl water.
10. RU cementers. Mix and pump 75 sks Low Fluid Loss Class G cement at 15.6 ppg followed by 25 sks Class G cement w/ retarder as needed at 16.0 ppg. (Cement designs based on 225°F @ 11,130'.) Sting out of CICR. Pull 2 jts of tubing and reverse tubing clean. TOOH.
11. RU WL unit and run CBL/VDL/GR/CCL log from CICR to top of 5" liner. Consult with Denver office on cement coverage. Correlate log to High Definition Induction Log/ Compensated Z-Densilog/ Compensated Neutron Log dated July 5, 2006. If cement coverage is adequate then proceed to

#### Katherine 3-29B4 Completion Procedure Stage #4

Step #12. If cement coverage is not adequate then prepare for additional squeeze work as per Denver office instruction.

12. TIH with a 4-1/8" bit, 5" casing scraper, two 3 1/8" drill collars, x-over sub, +/- 1,400' of 2-3/8", 4.7#/ft N-80 tubing, and the remaining 2-7/8", 6.5 #/ft N-80 tubing and drill out CICR. Continue RIH and CO to CBP & cement @ 11,374'. TOOH.
13. Fill hole with 2% KCl water and pressure test casing and squeeze holes to 1,000 psi. If squeeze holes test then prepare for Stage #4 frac. If squeeze holes do not test then consult with Denver office on possible squeeze.

#### **Perf & Stimulation Procedure**

14. Set six (6) clean 400 bbl frac tanks for stimulation work. Tanks are to be filled with 2% KCl water treated with biocide and scale inhibitor.
15. Install pressure gauge in 9-5/8" x 7" annulus. Monitor for communication throughout the entire completion procedure.
16. RU wireline with 5K lubricator and test to 5,000 psi with water. RIH and shoot the following intervals of Stage # 4 with 3-1/8" HSC, 22.7 gm charges, 3 jspf and 120° phasing. All perforations are to be correlated to the High Definition Induction Log/ Compensated Z-Densilog/ Compensated Neutron Log dated July 5, 2006. Total footage to perforate is 86' in 21 intervals. POOH and RD WL.

#### **Perforations: (open hole depths)**

<u>Top</u>	<u>Bottom</u>	<u>Footage</u>	<u># of Shots</u>
11360	11365	5	15
11329	11331	2	6
11308	11312	4	12
11302	11305	3	9
11276	11279	3	9
11265	11269	4	12
11227	11231	4	12
11212	11216	4	12
11196	11203	7	21
11181	11186	5	15
11148	11151	3	9
11139	11143	4	12
11118	11121	3	9
11105	11111	6	18
11094	11096	2	6
11082	11085	3	9
11060	11064	4	12
11050	11055	5	15
11039	11047	8	24
11004	11007	3	9
10985	10989	4	12
TOTALS		86	258

**Katherine 3-29B4 Completion Procedure Stage #4**

17. Record any changes in fluid level or wellhead pressure while perforating. Close blind rams. Lay and stake hardline to pit, NU chokes on casing valves. Flow test well recording hourly rates and wellhead cuts.
18. Use rig pump to attempt to break down perforations with +/-50 bbls 2% KCl water. Record rate and pressure of breakdown and ISIP, 5, 10, and 15 minute pressures.
19. MIRU stimulation company to break down perforations with 5,000 gallons 15% HCl acid at 15 to 25 bpm. Run 380 Bio-Ball (brown color) sealers evenly dispersed in the acid. Acid to contain both corrosion and scale inhibitor. Overflush acid 10 bbls to bottom perf with 2% KCl water. Shut down. Surge ball sealers. Isolate well head and continue to monitor well head pressure with stimulation company's data recorder for 60 minutes. Remove ball guns from treating line and pressure test treating line during shut in period. Bottomhole static temperature is 225° F @ 11,130'.
20. Pump the Stage # 4 crosslinked gel frac treatment with 105,000 lbs 20/40 Carboprop as per the attached schedule. All frac water to contain biocide and scale inhibitor. Heat the 2% KCl water to achieve +/- 120°F the day of the frac. Tag job w/ Iridium throughout the PROPPANT STAGES ONLY. Designed pump rate is 45 to 50 bpm, maximum surface pressure is to be 8,800 psi. Record ISIP, 5, 10 and 15 minute pressures. RD pump trucks. Run radioactive tracer survey.
21. Flow test well recording hourly rates and pressures. After flow testing, consult with Denver office as to additional testing of this stage or isolation. If additional testing is requested; proceed to step # 9. If no further flow testing is required then proceed to step # 12.
22. If additional flow testing up tubing is required, RU WL unit. RIH with Baker wireline set packer as follows; wireline re-entry guide, pump-out plug, X-nipple (1.87" ID), 6' x 2-3/8", 4.7 #/ft N-80 pup joint, Hornet packer, 2-3/8" x 2' Pup joint, On-Off tool. Set packer at +/-10,885'. RD WL unit.
23. TIH with On / Off tool, 2-3/8" and 2-7/8", N-80 tubing. Prior to latching onto on-off tool, roll hole to clean 2% KCL water. Space out tubing for landing, latch onto On-Off tool. RU pump truck, test backside to 1,000 psi for 10 minutes. RD pump truck.
24. ND BOP's. NU wellhead and test with test plug. Pressure up on tubing to pump out plug. Flow test well. RDMO workover rig, release all rental equipment.
25. If Stage # 4 is not to be isolated, then drill out CBP and cement at 11,374' using coiled tubing. Clean out to PBTD. Circulate hole clean. TOOH.
26. Run final production assembly, which will be based on well productivity.
27. Once production equipment has been run, release all rental equipment; RDMO WO rig; clean up location. Turn well over to pumper and turn to sales.

**Katherine 3-29B4 Completion Procedure Stage #4**

**Pump Schedule:**

Stage #	Stage Type	Elapsed Time min:sec	Fluid Type	Clean Volume (gal)	Prop Conc (ppg)	Stage Prop. (klbs)	Slurry Rate (bpm)	Proppant Type
Wellbore Fluid			2% KCL	16588				
1	Main frac acid	5:57	15%HCL	5000	0.00	0.0	20.00	
2	Water injection	26:11	2% KCL	17000	0.00	0.0	20.00	
3	Shut-in	86:11	SHUT-IN	0	0.00	0.0	0.00	
4	Main frac pad	94:17	25# XL Borate	17000	0.00	0.0	50.00	
5	Main frac slurry	99:13	25# XL Borate	10000	1.00	10.0	50.00	CarboProp-20/40
6	Main frac slurry	105:36	25# XL Borate	12500	2.00	25.0	50.00	CarboProp-20/40
7	Main frac slurry	110:54	25# XL Borate	10000	3.00	30.0	50.00	CarboProp-20/40
8	Main frac slurry	116:21	25# XL Borate	10000	4.00	40.0	50.00	CarboProp-20/40
9	Main frac flush	124:15	Linear Gel	16588	0.00	0.0	50.00	

Design clean volume (bbls)  
Design slurry volume (bbls)

2335.4  
2427.5

Design proppant pumped (klbs)

105.0

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
EL PASO PRODUCTION OIL AND GAS COMPANY

3. ADDRESS OF OPERATOR:  
1099 18TH ST, STE 1900 CITY DENVER STATE CO ZIP 80202

PHONE NUMBER:  
(303) 291-6400

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 670' FSL, 1217' FWL

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
KATHERINE 3-29B4

9. API NUMBER:  
4301332923

10. FIELD AND POOL, OR WILDCAT:  
ALTAMONT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: 3/15/2007	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE FOLLOWING WORK WAS PERFORMED ON THE SUBJECT WELL 2/25/2007 THRU 3/15/2007:

TOOH W/ TBG. TAG 5" LT @ 10,017'. RIH W/ 5" CBP AND SET @ 11,376'. DUMP BAIL 10' CMT ON CBP. P-TEST TO 4,000 PSI, OK. RIH AND SHOOT 6 HOLES, 11,030' - 11,032'. RUN CCL/GR/CBL LOG.  
PERF WASATCH FROM 10,887' - 11,371' W/ 3-1/8" GUN, 3 SPF, 120 DEGREE PHASING, 22.7 GRAM CHARGES, 112' TOTAL, 336 HOLES. P-TEST LINES TO 9,900 PSI. ACIDIZE W/ 5,000 GAL 15% HCL AT 8.3 BPM / 4,950 PSI USING 380 BIOBALLS. TEST LINES TO 9,600 PSI. OPEN WELL 3,394 PSI. FRAC W/ 5,000# 100 MESH AND 105,000# 20/40 CARBOPROP TAGGED W/ IRIIDIUM. SET PKR @ 9,900' RIH W/ 2-7/8" TBG. LATCH ON TO PKR AND LAND TBG HANGER IN 10K COMPRESSION. TBG LANDED @ 9,994'. 3/15/2007 WELL ON PRODUCTION.

NAME (PLEASE PRINT) LISA PRETZ

TITLE ENGINEERING TECH

SIGNATURE

DATE 3/23/2007

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MAR 26 2007

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

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1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

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3. ADDRESS OF OPERATOR:  
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PHONE NUMBER:  
(303) 291-6400

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
KATHERINE 3-29B4

9. API NUMBER:  
4301332923

10. FIELD AND POOL, OR WILDCAT:  
ALTAMONT

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 670' FSL, 1217' FWL

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 5/27/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: DRILL OUT CBP
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OPERATOR PERFORMED THE FOLLOWING WORK ON THE SUBJECT WELL BETWEEN 5/23/2007 AND 5/27/2007:

5/23/2007 TOOH W/ 2-7/8" TBG AND PROD PKR ASSEMBLY. 5/25/2007 TIH AND TAG FILL @ 11117'. CLEAN OUT FILL TO CMT @ 11414'. DRILL OUT CMT @ CBP. CONTINUE IN HOLE TO 13032'.  
5/26/2007 RIH W/ 2-7/8" TBG. SET TAC @ 7300' IN 20K TENSION, EOT @ 7641'. P-TEST TO 1000 PSI, OK.  
5/27/2007 RIH W/ RODS. STROKE TEST TO 1000 PSI, OK. RETURN WELL TO PRODUCTION.

RECEIVED

JUN 26 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) LISA PRETZ

TITLE ENGINEERING TECH

SIGNATURE

DATE 6/19/2007

(This space for State use only)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
El Paso E&P Company, LP

3. ADDRESS OF OPERATOR:  
1099 18th Street, Ste 1900 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 291-6400

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 670' FSL 1217' FWL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 T2S R4W

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
N/A

7. UNIT or CA AGREEMENT NAME:  
N/A

8. WELL NAME and NUMBER:  
Katherine 3-29B4

9. API NUMBER:  
4301332923

10. FIELD AND POOL, OR WILDCAT:  
Altamont

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator requests authorization to recomplete the subject well to the Upper Wasatch formation. Please refer to the attached procedure.

Proposed new PETS 10,236' to 10,845'

COPY SENT TO OPERATOR

Date: 8-14-2008

Initials: KS

NAME (PLEASE PRINT)

Rachael Overboy

TITLE

Engineering Tech

SIGNATURE

*Rachael Overboy*

DATE

7/15/2008

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 8/12/08

BY: *D. Smith*

(See Instructions on Reverse Side)

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DIV. OF OIL, GAS & MINING

## Recompletion Procedure

### COMPANY PERSONNEL

Title	Name	Office	Mobile	Home
Engineering Manager	Frank Seidel	(303) 291-6436	(303) 945-1049	(720) 524-8693
Geologist	Jim Borer	(303) 291-6455	(303) 877-3110	(303) 271-0917
Production Engineer	Devin Brown	(303) 291-6432	(303) 775-2130	(720) 344-6020
Production Foreman	Gary Lamb	(435) 454-4224	(435) 823-1443	(435) 454-3537

### Tubular Data

String	Description	Burst (psi) 100%	Coll (psi) 100%	Body Yield (Mlbs)	Jt Yield (Mlbs)	ID (in.)	Drift (in.)	TOC
Surface Casing	9-5/8" 40 ppf N-80 @ 6,474'	5,750	3,090	916	737	8.835	8.599	Surf
Intermediate Casing	7" 29 ppf HCP-110 LTC @ 10,313'	11,220	8,510	929	797	6.184	6.059	+/- 8,350'
Production Liner	5" 18 ppf HCP-110 VAM @ 10,039'-13,248'	13,940	13,470	580	495	4.276	4.151	10,100'
Production Tubing	2-7/8" 6.5 ppf N-80 EUE 8rd @ 9,910'	10,570	11,160		145	2.441	2.347	
Work String as Needed	2-3/8" 4.6 ppf N-80 EUE 8rd @ 9,900'-10,900'	11,200	11,780	--	104	1.995	1.901	

**AFE #: pending**

**AFE Amount: \$569,950**

**El Paso WI %: 100%**

### Notes:

Well is currently producing from the Wasatch via rod pump. Average daily production for May, 2008 was 40 oil, 133 gas, 315 water. Cumulative production since initial completion in November, 2006 (698 days) is 60,530 bbls oil, 150,459 mcf gas, 155,400 bbls water.

### Procedure:

1. MIRU WO rig. Pull rods and pump. Set nine (9) frac tanks and fill with clean, fresh water. Add 2% KCl substitute to one tank for rig operations. Frac company will supply KCl substitute for remaining water during frac job. Set additional tanks as needed to achieve 70 bpm frac rate.
2. ND wellhead & NU BOP's. Release TAC and TOOH standing back 2-7/8" production tubing.
3. PU and TIH with a 6" bit and 7" casing scraper on 2-7/8" 6.5#/ft N-80 tubing and TIH to 10,039'. TOOH.

## Recompletion Procedure

4. PU and TIH with a 4-1/8" bit and 5" casing scraper on 2-7/8" tubing crossing over to 2-3/8" tubing at liner top and TIH to +/-10,900'. TOOH.

### **Proppant Frac #5 of Wasatch (10,236'-10,845')**

5. MIRU wireline unit. RIH and set 5" 10K CBP @ 10,870'. Dump bail 10 feet of cement on top of plug. POOH. Test CBP and casing to 8,500 psi.
6. Perforate Wasatch correlating to Compensated Neutron Log with Gamma Ray and Caliper; Run 2; 7/5/06. Perfs are detailed on attached perf sheet. Use 3-1/8" TAG gun loaded 3 spf, 120 deg phased w/ 22.7 gram premium charges. Total footage is 67 ft over 58 intervals with 201 perfs. RD WL unit.
7. MIRU stimulation company fracture stimulate as follows:
  - i. Base fluid to be fresh water with frac company provided 2% KCl substitute heated to 120° F. Estimated BHST = 216° F @ 10,541'.
  - ii. All fluids to contain 2% KCl substitute, scale inhibitor, biocide, and 2.0 gpt MA-844 provided by frac company.
  - iii. Maximum allowable surface treating pressure is 8,500 psi. Pressure test treating line to 9,500 psi. Anticipated frac gradient is 0.72 psi/ft.
  - iv. Spearhead 5,000 gals 15% HCl acid at +/- 20 bpm containing 200 Bio-Balls (brown or green) for diversion. Flush acid to bottom perf plus 10 bbls over at +/- 30 bpm with treated water. Number of Bio-Balls is based 1.0 times the number of perforations.
  - v. Shut down for 60 minutes after flushing acid. Monitor and record pressure for first 15 minutes of shut-in. Surge ball sealers. Remove ball gun(s) from treating line and re-pressure test to 9,500 psi during shut-in period.
  - vi. Run radioactive tracer in the frac treatment. Use isotope #1 in the 1.0 ppg and 2.0 ppg stages. Use isotope #2 in the 3.0 ppg and 4.0 ppg stages. Use isotope #3 in the 5.0 ppg stage.
  - vii. Pump main fracture treatment according to the following schedule. Flush to top perf marking flush at 1.0 ppg at the wellhead densiometer. Record ISIP, 5, 10, and 15 minute pressure with computer van.
8. Shut well in and RDMO stimulation company.
9. Rig up for flowback and flowback well recording hourly rates and pressures. Contact Denver Office to discuss continuing flowback or killing well.
10. Clean out to cement and CIBP @ 10,860' with CTU or WO Rig, depending on shut-in pressure. Circulate hole clean with 2% KCl substitute water. POOH. RDMO CTU, if used.
11. RU WL unit and run ProTechnics radioactive tracer survey across frac stage.
12. Run final production assembly, which will be based on well productivity.
13. Once production equipment has been run, release all rental equipment; RDMO WO rig; clean up location. Turn well over to pumper and turn to sales.

## Recompletion Procedure

### **Perforation Detail:** Compensated Neutron Log with Gamma Ray and Caliper; Run 2; 7/5/06

TOP	BASE	HEIGHT	SPF	# OF PERFS	INTERVAL
10236	10237	1	3	3	58
10242	10243	1	3	3	57
10254	10255	1	3	3	56
10258	10259	1	3	3	55
10263	10264	1	3	3	54
10267	10268	1	3	3	53
10289	10290	1	3	3	52
10296	10297	1	3	3	51
10321	10323	2	3	6	50
10329	10330	1	3	3	49
10333	10334	1	3	3	48
10358	10359	1	3	3	47
10390	10391	1	3	3	46
10397	10398	1	3	3	45
10401	10402	1	3	3	44
10422	10423	1	3	3	43
10424	10425	1	3	3	42
10432	10433	1	3	3	41
10435	10436	1	3	3	40
10440	10441	1	3	3	39
10449	10451	2	3	6	38
10458	10459	1	3	3	37
10471	10472	1	3	3	36
10474	10476	2	3	6	35
10486	10487	1	3	3	34
10494	10495	1	3	3	33
10497	10499	2	3	6	32
10509	10510	1	3	3	31
10524	10525	1	3	3	30
10531	10533	2	3	6	29
10541	10543	2	3	6	28
10545	10546	1	3	3	27
10548	10549	1	3	3	26
10572	10573	1	3	3	25
10581	10582	1	3	3	24
10593	10594	1	3	3	23
10624	10625	1	3	3	22
10636	10637	1	3	3	21
10654	10655	1	3	3	20
10661	10662	1	3	3	19
10670	10672	2	3	6	18
10674	10675	1	3	3	17
10680	10681	1	3	3	16
10683	10685	2	3	6	15
10698	10699	1	3	3	14
10715	10717	2	3	6	13
10738	10739	1	3	3	12
10741	10742	1	3	3	11
10755	10756	1	3	3	10
10763	10764	1	3	3	9
10776	10777	1	3	3	8
10788	10789	1	3	3	7
10798	10799	1	3	3	6
10819	10820	1	3	3	5
10828	10829	1	3	3	4
10833	10834	1	3	3	3
10838	10839	1	3	3	2
10844	10845	1	3	3	1
TOTALS		67		201	

# Recompletion Procedure

## Pump Schedule:

Design	Prop. Name	Prop Conc. (lb/gal)	Clean Vol. (gal)	Fluid Name	Slurry Rate (bpm)	Dirty Vol. (gal)	Stage Time (min)	Cum. Time (min)	Cum. Slurry (gal)	Cum. Clean (gal)	Stage Prop. (lb)	Cum. Prop. (lb)
1	0_None	0.00	5000	XL BORATE	70	5000	1.70	1.70	5000	5000	0	0
2	100 mesh FLA	0.50	25000	XL BORATE	70	25565	8.70	10.40	30565	30000	12500	12500
3	0_None	0.00	5000	XL BORATE	70	5000	1.70	12.10	35565	35000	0	12500
4	SinterLite Bauxite 20/40	1.00	15000	XL BORATE	70	15526	5.28	17.38	51091	50000	15000	27500
5	SinterLite Bauxite 20/40	2.00	20000	XL BORATE	70	21401	7.28	24.66	72492	70000	40000	67500
6	SinterLite Bauxite 20/40	3.00	20000	XL BORATE	70	22102	7.52	32.17	94594	90000	60000	127500
7	SinterLite Bauxite 20/40	4.00	25000	XL BORATE	70	28504	9.70	41.87	123098	115000	100000	227500
8	SinterLite Bauxite 20/40	5.00	20000	XL BORATE	70	23504	7.99	49.86	146602	135000	100000	327500
9	0_None	0.00	15800	LINEAR GEL	70	15800	5.37	55.24	162402	150800	0	327500

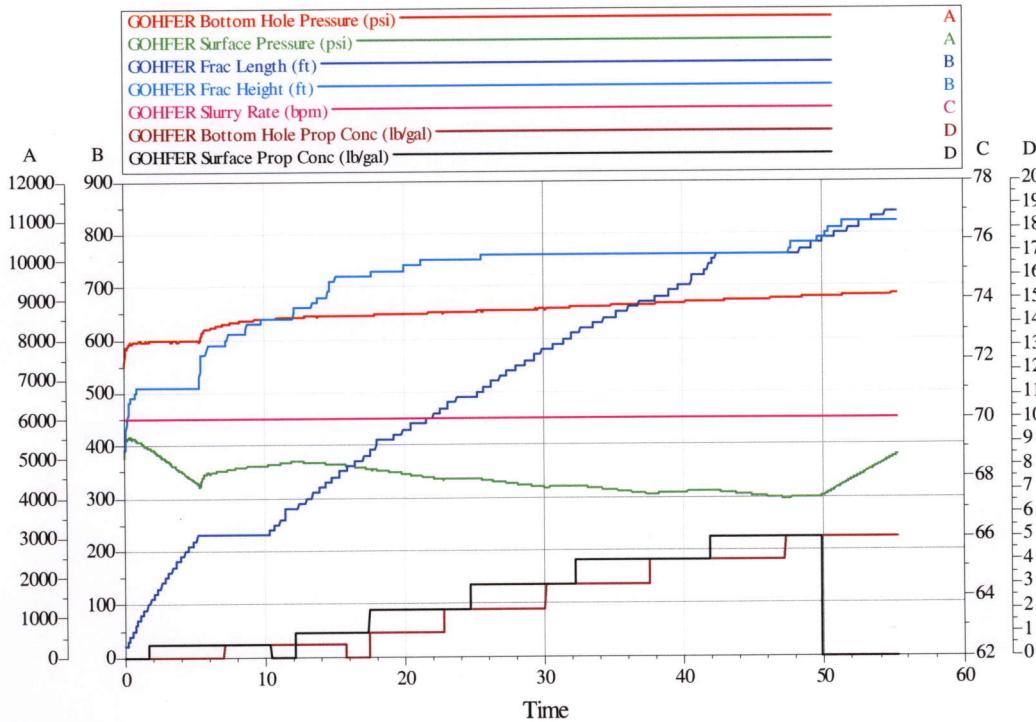
Totals:

150800

162402

327500

## 3-29B4 Stage#5 Design



GohWin v1.6.5  
30-May-08 08:45

WinParse Version 2007.0.12 Generated 5/30/2008 8:49:59 AM

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1099 18TH ST, STE 1900 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 670' FSL, 1217' FWL		8. WELL NAME and NUMBER: KATHERINE 3-29B4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 2S 4W		9. API NUMBER: 4301332923
COUNTY: DUCHESNE		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

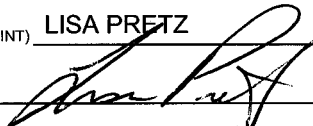
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/27/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE FOLLOWING WORK WAS PERFORMED ON THE SUBJECT WELL 7/29/2008 THRU 8/27/2008:

TOOH W/ RODS AND TBG. RIH W/ 5" CBP @ 10,870'. PRESS TESS. HELD TO 4500 PSI FRO 15MIN. DUMP 4' SAND ON PLUG AND 8' CMT. TOC @ 10858'.  
RIH W. 3-1/8" PERF GUN, PERFORATE FROM 10845'-10236'. PUMPED 20 BBLs DIESEL AND 275 GAL PARAFFIN TREATMENT INTO CSG. TEST LINES TO 9500 PSI. TREAT PERFORATIONS W/ 5000 GAL 15% HCL ACID, USING 200 BIO BALLS FOR DIVERSION. FRAC PERFORATIONS W/ 12660 LBS 100 MESH SAND AND 94130 LBS 20/40 SINTERLITE BAUXITE SAND. TAG FILL @ 9853'. BROKE CIRCULATION. WASHED SAND TO 9871'. REVERSE CIRCULATE AND WASH SAND OUT TO 10876'.  
RIH W/ 2-7/8" TBG. SET TAC @ 9676' IN 20K TENSION. RIH W/ ROD STRING. SEAT AND SPACE PUMP. STROKE TEST TO 1000 PSI, GOOD.

RETURN WELL TO PRODUCTION ON 8/27/2008.

NAME (PLEASE PRINT) LISA PRETZ	TITLE ENGINEERING TECH
SIGNATURE 	DATE 9/3/2008

(This space for State use only)

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DIV. OF OIL, GAS & MINING

Toas Ro4w 5-29 43-013-32923



# EL PASO PRODUCTION Operations Summary Report

Page 1 of 3

Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

Start: 7/29/2008  
Rig Release:  
Rig Number: 900

Spud Date: 4/19/2006  
End: 8/28/2008  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/30/2008	13:00 - 19:00	6.00	C	06		HSM ROAD RIG FROM HANSKUTT 2 23 B5 MIRU PMP 70 BBLS HOT 2% KCL DWN ANNULAS SLIDE ROTO FLEX LD POLISH ROD UNSEAT PMP FLUSH TBG w 60 BBLS HOT 2% KCL TOH w 116-1" 116-7/8" 136-3/4" 24-1" RODS FLUSH TBG AS NEEDED LD PMP ND WELLHEAD NU BOP'S RU FLOOR AND TONGS SECURE WELL SDFN
7/31/2008	06:00 - 17:00	11.00	C	06		HSM CSIP 150 PSI TSIP 80 PSI BLEED DWN WELL RELEASE TAC PMP 50 BBLS HOT 2% KCL DNW ANNULAS TOH w 307 JTS 2 7/8" N-80 EUE 8RD TBG FLUSHING ANNULAS AS NEEDED LD BHA PU 5" CSG SCAPER 2 3/8" REG X 2 3/8" EUE 8RD BIT SUB w 4 1/8" BIT PU 35 JTS 2 3/8" N-80 EUE 8RD TBG 2 7/8" EUE 8RD X 2 3/8" EUE 8RD XO CONT TIH w 312 JTS 2 7/8" N-80 EUE 8RD TBG TO 11064' TOH w 90 JTS 2 7/8" N-80 EUE 8RD TBG ABOVE LINER TOP EOT 8229' SECURE WELL SDFN
8/1/2008	07:00 - 13:00	6.00	C	06		HSM CSIP 175 PSI TSIP 85 PSI BLEED OFF WELL FINISH TOH w 217 JTS OF 2 7/8" N-80 EUE 8RD TBG 35 JTS OF 2 3/8" N-80 EUE 8RD TBG LD 5" CSG SCAPER BIT SUB AND 4 1/8" BIT CLEAN UP WORK AREA SECURE WELL SDFN
8/2/2008	06:00 - 23:00	17.00	C	06		HSM CSIP 170 PSI BLEED OFF WELL RU WIRELINE RIH w 5" CBP SET @ 10870' TOH w WIRELINE FILL CSG w 352 BBLS 2% KCL TEST CBP TO 4500 PSI HELD FOR 15 MIN TEST GOOD BLEED OFF PRESSURE RU AND TIH w DUMP BAILER... DUMP 4' SAND TOH w DUMP BAILER MIX CMT TIH DUMP BAIL 8' CMT... TOC @ 10858' TOH LD DUMP BAILER PU 3 1/8" PERF GUN TIH PERFORATE 1ST STAGE 10845'-10236'... GUNS RUN 4 AND 5 SHORTED TOH REPLACED CAPS TIH CONT PERFORATING STARTING PSI 0... FINAL PSI SLIGHT BLOW w SOME OIL... SECURE WELL SDFN
8/3/2008	06:00 - 19:00	13.00	C	06		HSM CSIP 250 PSI FLOW 21 BBLS OF OIL/ WTR MIX TO FLAT TANK PU 5 3/4" NO-GO TIH w 200 JTS 2 7/8" TBG ELEVATORS OPEN DROPPED 200 JTS OF 2 7/8" N-80 EUE 8RD TBG (6240.12' ) REPLACE ELEVATORS TIH w 5 3/4" OS w 3 21/32" LCS GRAPLE AND 121 JTS 2 7/8" N-80 EUE 8RD TBG... ENGAUGED FISH @ 3771' INTIAL STRING WT 14K CATCH FISH PULL UP STRING WT 43K TIH w 1 JT RU HOT OIL TRUCK CIRC WELL CLEAN w 60 BBLS HOT 2% KCL TOH w 120 JTS OF 2 7/8" N-80 EUE 8RD TBG LD FISHING TOOLS CONT TOH w 200 JTS OF 2 7/8" N-80 EUE 8RD TBG BRAKE OUT 5 3/4" NO-GO REPLACE 6 JTS ON BTM PU 5 3/4" NO-GO TIH w 60 JTS 2 7/8" N-80 EUE 8RD TBG EOT 1872' SECURE WELL SDFW
8/5/2008	07:00 - 18:00	11.00	C			SAFETY MEETING W/ PEAK CREW. SITP-500# SICP-450#. BLEED OFF. PUMPED 10 BBLS 2% KCL DOWN TBG. POOH W/ 30 STDs 2-7/8" TBG AND NO-GO. M/U 2-7/8" SOLID PLUG, 5-3/4" NO-GO, 4' X 2-7/8" PERFORATED SUB. TIH W/ 314 JTS 2-7/8" TBG TO 9796'. LANDED TBG. N/D BOPS. N/U PUMPING TEE. CHANGED HANDLING TOOLS FOR RODS. TIH W/ RODS OUT OF DERRICK. POOH L/D 114-1" RODS. P/U POLISHED ROD. SECURED WELL FOR NIGHT.
8/6/2008	07:00 - 17:00	10.00	C			SAFETY MEETING W/ PEAK CREW. SITP-SLIGHT BLOW. SICP-200#. BLEED OFF. PUMPED 30 BBLS HOT 2% KCL DOWN TBG. L/D POLISHED ROD, 1-1" ROD, 116-7/8" RODS, 136-3/4" RODS, AND 24-1" RODS. CHANGED HANDLING TOOLS FOR TBG. PUMPED 20 BBLS DOWN TBG. N/U BOPS. POOH L/D 210 JTS 2-7/8" 6.5# N80 8RD TBG. EOT 3030'. SECURED WELL FOR NIGHT.
8/7/2008	06:30 - 16:30	10.00	C			SAFETY MEETING W/ PEAK CREW. SITP-0 # SICP-450#. BLEED

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DIV. OF OIL, GAS &amp; MINING



# EL PASO PRODUCTION Operations Summary Report

Page 2 of 3

Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

Start: 7/29/2008  
Rig Release:  
Rig Number: 900  
Spud Date: 4/19/2006  
End: 8/28/2008  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/7/2008	06:30 - 16:30	10.00	C			OFF. FILLED CSG W/ 20 BBLS KCL. FIN POOH L/D 140 JTS 2-7/8" TBG. 314 JTS TOTAL OUT. RETIGHTENED BOP BOLTS. REPLACED PIPE RAMS W/ SECOND SET OF BLIND RAMS. RIGGED DOWN. CLEANED LOCATION. ROADED RIG TO THE RUST 3-4B3
8/8/2008	-					PUMPED 20 BBLS DIESEL AND 275 GAL PARAFFIN CHEMICAL INTO CSG .25 BPM @ 3500#. SECURED WELL. W/O FRAC DATE
8/9/2008	-					WAIT ON FRAC DATE
8/10/2008	-					WAIT ON FRAC DATE
8/11/2008	-					NO ACTIVITY. W/O FRAC DATE
8/12/2008	-					NO ACTIVITY. W/O FRAC DATE
8/13/2008	-					NO ACTIVITY. W/O FRAC DATE
8/14/2008	-					MOVE IN FRAC TANKS PREPAIR LOC FOR FRAC
8/15/2008	10:00 - 14:00	4.00	C	06		FILL FRAC TANKS W FRESH WTR HEAT WTR MOVE 2 3/8" TBG TO PIPE RACKS MOVE WORK TANK GET LOC READY FOR FRAC EQUIPMENT MIRU FRAC EQUIPMENT FRAC IN AM
8/17/2008	07:00 - 17:00	10.00	C			MIRU STINGER CSG ISOLUTION TOOL & BJ FRAC EQUIPMENT. TEST LINES TO 9500 PSI.BREAK DOWN STAGE 5 PERFORATIONS @ 5904 PSI. TREAT PERFORATIONS W/ 5000 GAL 15% HCL ACID, USING 200 BALL SEALERS FOR DIVERSION. ISIP 4013 PSI. 5 MIN 3824 PSI. 10 MIN 3720 PSI. 15 MIN 3672 PSI. REMOVE ISOLUTION TOOL FROM WELL & REPAIR VALVE. INSTALL ISOLUTION TOOL & PRESSURE TEST LINES TO 9500 PSI. FRAC PERFORATIONS W/ 12660 # 100 MESH SAND IN 1/2 PPG STAGE & 94130 # 20/40 SINTERLITE BAUXITE SAND IN 1 #, 2 # & 3 # STAGES. STARTED SCREENING OUT DURING 3# STAGE. STAGE FLUSH. LEFT 24930 # SAND IN CSG. 81900 # SAND IN PLACE. 5 MIN 4468 PSI. 10 MIN 4309 PSI. 15 MIN 4303 PSI. RD FRAC EQUIPMENT. TURN WELL OVER TO PRODUCTION FOR FLOW BACK.
8/18/2008	-					FLOW WELL
8/19/2008	-					FLOW BACK FRAC
8/20/2008	09:30 - 15:00	5.50	C			MIRU BASIC 1599. REPLACED 1 SET BLIND RAMS W/ 2-7/8" PIPE RAMS. N/U WASHINGTON HEAD. R/U PUMP AND TANK. OPENED WELL BACK UP TO FLOWBACK TANK. SIP-450#. LET WELL UNLOAD TO TANK. BLEW HYDRAULIC PUMP SHAFT. SHUT DOWN FOR NIGHT. LEFT WELL OPEN TO TREATER. WILL MAKE REPAIRS AND START IN A.M.
8/21/2008	06:30 - 18:30	12.00				SAFETY MEETING W/ BASIC CREW. FCP-25#. FILLED CSG W/ 15 BBLS 10# BRINE. M/U 4-1/8" BIT AND BIT SUB ON 2-3/8" JT. RAN 3 JTS. WELL UNLOADING. CWI. PUMPED 10# BRINE TO FILL HOLE. CONTINUED STRIPPING IN HOLE CIRCULATING AS NEEDED TO KEEP WELL LAID DOWN. 34 JTS 2-3/8" AND 227 JTS 2-7/8" IN HOLE. EOT @ 8258'. SECURED WELL. STEAMED OFF TONGS, SLIPS, FLOOR, AND BOPS. CLEANED CELLAR. SDFN.
8/22/2008	08:00 - 18:30	10.50	C			SAFETY MEETING W/ BASIC CREW. FCP-35#. SITP-150#. BLED TBG AND CSG TO FLOWBACK TANK. CIRCULATED DOWN TBG TO CLEAR OIL AND GAS OUT OF TBG. TIH P/U 50 JTS 2-7/8" TBG. TAGGED FILL @ 9853'. R/U SWIVEL. BROKE CIRCULATION. WASHED SAND TO 9871'. SWAB IN PUMP BEGAN LEAKING. CIRUCLATED CLEAN. SHUT DOWN 2 HOURS TO REPLACE SWAB IN PUMP. RESUME WASHING @ 9871'. WASHED TO 10197. CBU. HUNG BACK SWIVEL. POOH W/ 8 JTS TO CLEAR TOP OF LINER. EOT @ 9936'. SECURED WELL FOR NIGHT.
8/23/2008	06:30 - 18:30	12.00	C			SAFETY MEETING W/ BASIC CREW. SITP-VAC. FCP-35#.



# EL PASO PRODUCTION Operations Summary Report

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Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

Start: 7/29/2008  
Rig Release:  
Rig Number: 900  
Spud Date: 4/19/2006  
End: 8/28/2008  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/23/2008	06:30 - 18:30	12.00	C			TAGGED FILL @ 10030'. 167' FILL OVERNIGHT. REV CIRCULATE TO CLEAR OIL AND GAS OUT OF WELLBORE. R/U SWIVEL. WASHED SAND TO 10876' PIPE MEASUREMENTS. REV CBU 270 BBLS @ 4.5 BPM. NO SAND IN RETURNS. POOH TO 9904' SLOWLY KEEPING HOLE FULL. SECURED WELL FOR NIGHT.
8/24/2008	06:30 - 14:30	8.00	C			SAFETY MEETING W/ BASIC CREW. SITP-OIL @ SURFACE. SICP-0#. REVERSED OIL OUT OIF TBG. LOWERED AND TAGGED FILL @ 10868'. 8' FILL OVERNIGHT. R/U DELSCO AND PROTECHNICS. RAN TRACER LOG FR/ 10860' UP TO 9750'. POOH R/D M/O DELSCO AND PROTECHNICS. R/U TBG SWIVEL. WASHED FILL FR/ 10868' TO 10876'. REVERSE CIRCULATED 240 BBLS. NO SAND IN RETURNS. POOH SLOW TO 9936' KEEPING HOLE FULL. LINER TOP @ 10017'. SECURED WELL FOR SUNDAY.
8/25/2008	-					NO ACTIVITY
8/26/2008	06:30 - 18:30	12.00	C			SAFETY MEETING W/ BASIC CREW. SITP-1100# SICP-1100#. BLEED TBG AND CSG DOWN. PUMPED 10 BBLS KCL DOWN TBG TO CLEAR GAS OFF CSG. REVERSED 20 BBLS DOWN CSG TO CLEAR TBG. LOWERED IN HOLE. TAGGED @ 10876'. NO FILL. POOH KEEPING HOLE FULL. LAID DOWN 34 JTS 2-3/8" TBG AND 4-1/8" BIT. M/U & TIH W/ SOLID PLUG, 5-3/4" NO-GO, 2 JTS 2-7/8" N80 8RD TBG, 4-1/2" PBGA, 6' X 2-7/8" PUP JT, PSN, 7 JTS 2-7/8" N80 8RD TBG, 7" TAC, AND 304 JTS 2-7/8" N80 8RD TBG. TBG AND CSG STARTING TO FLOW. CLOSED BOPS. LEFT CSG OPEN TO TREATER OVERNIGHT.
8/27/2008	06:30 - 19:30	13.00	C			SAFETY MEETING W/ BASIC CREW. SITP-0# FCP-35#. BLEED CSG DOWN. CIRCULATED 225 BBLS KCL DOWN TBG TO CLEAR CSG OF OIL AND GAS. R/D FLOOR AND TONGS. N/D BOPS. SET TAC @ 9676' W/ 20K TENSION. LANDED TBG. N/U WELLHEAD. CHANGED HANDLING TOOLS FOR RODS. FLUSHED TBG W/ 60 BBLS HOT KCL. SPOTTED 15 BBLS 10# BRINE IN TBG TO STOP FLOW. P/U AND PRIME 2-1/2" X 1-3/4" X 38' McGIVER PUMP. CLEANED ROD PINS AND BOXES. TIH P/U RODS. 24-1" W/G, 10-3/4" W/G, 116-3/4" SLICK, 10-3/4" W/G, 15-7/8" W/G, 92-7/8" SLICK, 10-7/8" W/G, 113-1" SLICK, 1-2' X 1" SUB, 1-1/2" X 36' POLISHED ROD. SEATED PUMP. FILLED AND TESTED TO 500# W/ 2 BBLS KCL. STROKE TESTED TO 1000#. GOOD TEST. SECURED WELL FOR NIGHT. REPLACED 11-3/4" AND 29-7/8" ROD BOXES.
8/28/2008	06:30 - 09:00	2.50	C			SAFETY MEETING W/ BASIC CREW. RIGGED DOWN. SLID UNIT UP. HUNG WELL ON. STROKED W/ UNIT TO CHECK FOR TAGGING. SHUT UNIT DOWN. TURNED OVER TO PRODUCTION. MOVED OFF LOCATION

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th ST, STE 1900 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013329230000
<b>PHONE NUMBER:</b> 303 291-6417 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 9/17/2009	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER</b>	
	<input type="checkbox"/> <b>CASING REPAIR</b>	
	<input type="checkbox"/> <b>CHANGE WELL NAME</b>	
	<input type="checkbox"/> <b>CONVERT WELL TYPE</b>	
	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>	
	<input type="checkbox"/> <b>PLUG BACK</b>	
	<input checked="" type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>	
	<input type="checkbox"/> <b>TEMPORARY ABANDON</b>	
	<input type="checkbox"/> <b>WATER DISPOSAL</b>	
	<input type="checkbox"/> <b>APD EXTENSION</b>	
	OTHER: _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> El Paso E&P Company, L.P. recompleted the Katherine 3-29B4 to the Upper Wasatch. Recompletion activity was from 09/03/2009 - 09/17/2009. The daily activity reports are attached.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> October 22, 2009		
<b>NAME (PLEASE PRINT)</b> Kim Traylor	<b>PHONE NUMBER</b> 713 420-5910	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/21/2009	



EL PASO PRODUCTION  
Operations Summary Report

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Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

Start: 9/3/2009  
Rig Release:  
Rig Number: 900

Spud Date: 4/19/2006  
End:  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/3/2009	06:30 - 07:00	0.50	C	18		HELD SAFTEY MEETING PERFORMED JSA.
	07:00 - 10:00	3.00	C	01		ROAD RIG FROM RINKER 2-21B5 TO KATHERINE 3-29B4, SLIDE ROTAFLEX, RIG UP,
	10:00 - 11:30	1.50	C	04		LD POLISH ROD. P.O.O.H. W/ 1-2'X1" PONY ROD. 113-1" EL RDS, 117-7/8" EL RDS, 28-3/4" EL RDS, TO BUSTED BOX ON BOTTOM OF # 28-3/4" RD.
	11:30 - 16:30	5.00	C	04		MU 1 5/8" OS. RIH VERY SLOW GETTING BACK IN HOLE THROUGH WAX, LATCHED ONTO ROD FISH. UNSEATED PMP, PMPED 40 BLS 2% KCL TO FLUSH TBG, AND TBG PLUGGED OFF.
	16:30 - 18:30	2.00	C	04		P.O.O.H. W/ 113- 1" RDS. 117- 7/8" RDS. 28-3/4" RDS ,LD OS, CONT P.O.O.H. W/ 108-3/4" RDS. 24-1" WEIGHT RDS, LD 2 1/2" X 1 3/4" X 38' RHBC, C.D.I. McGIVER PMP.
9/4/2009	18:30 - 19:00	0.50	C	18		ATTEMPTED TO FLUSH TBG, PRESSURED UP TO 1,500# P.S.I. TBG PLUGGED. S.D.F.N.
	07:00 - 11:00	4.00	C	08		HSM CIRC WELL W/ 120 BBLS KCL. PUMPED 35 BBLS DOWN CSG TO KILL WELL
	11:00 - 12:00	1.00	C	15		ND WELLHEAD NU BOPS
	12:00 - 15:00	3.00	C	04		RELEASED TAC. TOO H W/ 304-JTS 2 7/8 N-80 EUE TBG. LD BHA.
	15:00 - 19:30	4.50	C	04		PU AND TALLIED 4 1/8 BIT 5" SCRAPER, 28-JTS 2 3/8 N-80 EUE TBG,X-OVER, 7" SCRAPER,X-OVER AND 70 JTS 2 7/8 N-80. EOT@ 3087'. SECURED WELL SDFN.
9/5/2009	07:00 - 10:30	3.50	C	04		HSM 50 TSIP 50 CSIP. BLED DOWN WELL. RIH W/ 244-JTS 2 7/8 N-80 TBG. TAGGED FILL @ 10866'
	10:30 - 14:30	4.00	C	04		TOOH W/ 314JTS 2 7/8TBG, 7 "SCRAPER. X-OVERS. 28 JTS 2 3/8 N-80 TBG. AND BHA.
	14:30 - 15:30	1.00	C	04		RIH W/ 5 3/4 NO-GO, 1-JT 2 7/8 N-80 TBG, S.N, 80-JTS 2 7/8 N-80 EUE TBG. EOT @2615' SECURED WELL SDFN.
9/8/2009	06:30 - 07:00	0.50	C	18		HELD SAFTEY MTNG, PERFORMED JSA
	07:00 - 08:00	1.00	C	08		CIRCULATED OIL OUT OF WELL BORE W/ 95 BLS 2% KCL, @ 200 DEG. DN CSNG UP TBNG.
	08:00 - 09:00	1.00	C	04		P.O.O.H. W/ 80 JNTS 2 7/8" N-80 EUE. 5 3/4" NO-GO.
	09:00 - 12:00	3.00	C	04		P.U. 7" PKR, R.I.H. W/ 315 JNTS 2 7/8" N-80 EUE TBG. TO 9,999' SET PKR.
	12:00 - 14:00	2.00	C	18		TIGHTENED UP BOP STACK, PRESSURE TESTED CASING. GOOD TEST.
9/9/2009	14:00 - 17:00	3.00	C	04		LD 2 JNTS 2 7/8" N-80 EUE, P.O.O.H. W/ 235 JNTS 2 7/8" N-80 EUE TBG. LEFT KILL STRING & 7" PKR @ 2,544'. RU CIRCULATING LINES FOR A.M. VENTED CSNG TO TREATER FOR THE NIGHT. S.D.F.N.
						PUMPED A TOTAL OF 100 BLS 2% KCL FOR THE DAY EOT @ 2,544'
	06:30 - 07:00	0.50	C	18		HELD SAFTEY MEETING, PERFORMED JSA
	07:00 - 09:00	2.00	C	08		CIRCULATED OIL OUT OF CSNG W/ 120 BLS 2% KCL @ 200 DEG. PMPING DN TBG UP CSNG. FROM 2,544'
	09:00 - 09:30	0.50	C	04		P.O.O.H. W/ 80 JNTS 2 7/8" N-80 EUE TBG. LD 7" PKR.
9/11/2009	09:30 - 12:00	2.50	C	11		ND WASHINGTON HEAD. RU WL RIH PERFERATE UPPER WASATCH FROM 10,807' TO 10,313'. W/ 3.125 TAG GUN LOADED W/ 3 SPF, W/ 120 DEG PHASING. W/ 22.7 GRAM PREMIUM CHARGES. TOTAL FOOTAGE IS 9 FT OVER 9 INTERVALS WITH 27 PERFS. P.O.O.H RD WL. SWIFN.
	12:00 - 13:30	1.50	C	18		RUN FLOWBACK LINE TO FLOWBACK TANK. SDFN.
	06:30 - 07:00	0.50	C	18		(PMPED 120 BLS 2% KCL TOTAL FOR THE DAY.) HELD SAFTEY MEETING. PERFORMED JSA.

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# EL PASO PRODUCTION Operations Summary Report

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Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

Start: 9/3/2009  
Rig Release:  
Rig Number: 900

Spud Date: 4/19/2006  
End:  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/11/2009	07:00 - 09:30	2.50	C	18		R/U BJ SERVICES FRAC LINES & EQUIPMENT. INSTALLED STINGERS TREE SAVER. HELD SAFTEY MEETING W/ BJ CREW & RIG CREW. PRESSURE TESTED LINES TO 8,500 PSI.
	09:30 - 13:00	3.50	C	18		OPEN WELL UP, PRESSURED UP ON FORMATION AND GOT PERFS TO BREAK DOWN @ 4,860# @ 10 BPM. SPEAR HEADED 6,000 GALLONS OF 15% HCl ACID. W/ 228 BIO BALLS FOR DIVERSION. PMPED ACID @ 4930# @ 29 BPM. FLUSHED ACID 10 BLS PAST BTM PERF. ISIP WAS 4,378 PSI. 5 MIN 4185 PSI. 10 MIN 4080 PSI. 15 MIN 3980 PSI. LEFT WELL SHUT IN FOR 60 MINUTES. SURGED BIO BALLS FROM PERFS, REMOVED BALL GUNS FROM PMP LINES. RE-PRESSURE TESTED LINES. BEGAN TEATMENT TO PERF W/ 12500 # OF 100 MESH. @ 5866 PSI @ 69 BPM. THEN 120 BBL PAD @ 5120 PSI @ 67 BPM. STGED 20,000 GAL W/ 1 PPG VERSAPROP. THEN STGED 20,000 GAL W/ 2 PPG VERSAPROP. THEN STGED 20,000 GAL W/ 3 PPG VERSAPROP. THEN STAGED 12,500 GAL W/ 4 PPG VERSAPROP. WENT TO FLUSH AND 4# SAND SCREENED OUT W/ 340 BLS OF FLUSH PMPED. LEAVING 60 BLS OF 4 PPG VERSAPROP ABOVE PERFS. ACVERAGE TREATING PRESSURE FOR JOB WAS 5,972 PSI. @ 72 BPM. ISIP 7,673 PSI, 5 MIN 6,950 PSI. STINGERS- TREE SAVER RUBBERS BLEW OUT RIGHT AFTER SHUT DOWN OF THE JOB. BEGAN BLEEDING WELL DOWN DUE TO THAT PROBLEM.
	13:00 - 16:30	3.50	C	18		R/D BJ SERV FRAC LINES & EQUIPMENT. BEGAN FLOWING WELL BACK TO FLOW BACK TANK @ 1:00 PM. ON A 14/64CHOKE. @ 4,300 PSI. @ 4:30 PM TURNED WELL OVER TO PRODUCTION FLOW BACK CREW. RIG SDFWE.
9/14/2009	06:30 - 07:00	0.50	C	18		HELD SAFTEY MEETING. PERFORM JSA
	07:00 - 10:30	3.50	C	18		OPENED UP CHOKE TO 64/64. RU DELSCO SLICK LINE, RIH W/ SINKER BARS FOR TD RUN. TAGGED FILL @ 10,488' WITH WIRE LINE.
	10:30 - 11:30	1.00	C	04		M/U 2 3/8" EUE NOTCHED COLLER, RIH W/ 30 JNTS 2 3/8" N-80 EUE TBG WORK STRING, PMPED 10 BLS 10# BRINE WTR DN TBG. PUT ON WASHINGTON RUBBER. CHANGED OVER RAM BLOCKS FOR 2 7/8" TBG. AND CHANGED TBG EQUIPMENT OVER FOR 2 7/8" TBG.
	11:30 - 16:00	4.50	C	04		CONTINUE RIH W/294 JNTS 2 7/8" N-80 EUE TBG, TAG UP ON FILL @ 10,173'. RU TO CIRCULATE DN CSNG UP TBG, BEGAN PMPING. PRESSURED UP BOTH WAYS. POOH TO 10,108', TIED BACK ON TO CIRC WELL, PRESSURED UP TO 2000 PSI ON CSNG AND GOT WELL TO CIRCULATE. PMPED 90 BLS 2% KCL WTR TO CLEAN UP WELL BORE.
	16:00 - 17:30	1.50	C	04		POOH ABOVE LINER TOP W/ 10 JNTS 2 7/8" N-80 TBG FOR NIGHT TO 9,860'. SWIFN.
9/15/2009	06:30 - 07:00	0.50	C	18		HELD SAFTEY MTNG. PERFORMED JSA. TSIP-150# CSIP-900#.
	07:00 - 13:00	6.00	C	13		bled down well. PMPED 20 BLS 2% KCL DN TBG. RIH TAG UP ON SAND @ 9,954'. RU CIRCULATING STAND, WASHED OUT 40' OF SAND AND FELL THROUGH A SAND BRIDGE. CIRCULATED CLEAN. RIH TO 10,576' TAG UP ON SAND AGAIN, RU AND CLEANED OUT 284' OF SAND TO 10,860'. TO TOP OF CEMENT ON CIBP. CIRCULATED CLEAN W/ 140 BLS 2% KCL WTR.
	13:00 - 16:00	3.00	C	04		POOH W/ 313 JNTS 2 7/8" N-80 EUE TBG. CHANGED OVER

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# EL PASO PRODUCTION Operations Summary Report

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Legal Well Name: KATHERINE 3-29B4  
Common Well Name: KATHERINE 3-29B4  
Event Name: RECOMPLETION  
Contractor Name: PEAK  
Rig Name: PEAK

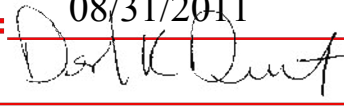
Start: 9/3/2009  
Rig Release:  
Rig Number: 900

Spud Date: 4/19/2006  
End:  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/15/2009	13:00 - 16:00	3.00	C	04		EQUIPMENT FOR 2 3/8" TBG. LD 30 JNTS 2 3/8" N-80 EUE TBG & NOTCHED 2 3/8" COLLER.
	16:00 - 18:00	2.00	C	04		CHANGE OVER EQUIPMENT FOR 2 7/8" TBG. RIH W/ BHA AS, 2 7/8" SOLID PLUG, 5 3/4" NO-GO. 2 JNTS 2 7/8" N-80 EUE TBG. 4 1/2" P.B.G.A. 6' - 2 7/8" N-80 EUE PUP JNT. P.S.N. 7 JNTS 2 7/8" N-80 EUE TBG. 7" T.A.C. 212 JNTS 2 7/8" N-80 EUE TBG. SHUT IN TBG. VENTED CASING TO TREATER ON 12/64 CHOKE. SDFN.
9/16/2009						(CLEANED OUT WELL BORE TO 10,860') (LOST- 360 BLS. 2% KCL WTR) ( EOT @ 6,829')
	06:30 - 07:00	0.50	C	18		HELD SAFTEY MTNG. PERFORMED JSA. TSIP-150#. CSIP-700#.
	07:00 - 10:00	3.00	C	08		bled well dn. CONTINUE RIH W/ 100 JNTS 2 7/8" N-80 EUE TBG. RU TO CIRCULATE. PMPED 360 BBLS 2% KCL DN TBG UP CSNG.
	10:00 - 12:30	2.50	C	10		RU FLOOR. ND-B.O.P. SET T.A.C W/ 22,000# TENSION. NU- WH. CHANGED OVER EQUIPMENT TO RUN RODS.
	12:30 - 13:30	1.00	C	08		FLUSHED TBG W/ 60 BBLS 2 % KCL WTR.
9/17/2009	13:30 - 16:30	3.00	C	04		PU & RIH W/ 2 1/2" X 1 3/4" X 39' RHBC NATIONAL PMP. 24-1" EL RODS, 136-3/4" EL RODS, 117- 7/8" EL RODS, 113-1" EL RODS, 1-6' X1" EL PONY ROD, 1-2' X 1" EL PONY ROD, 36' X 1 1/2" POLISH ROD. SPACED OUT PMP. HOLE WAS STANDING FULL. PRESSURE TESTED TBG TO 1,000 P.S.I. GOOD TEST. PMPED 10 BBLS 2% KCL ACCROSS FLOWLINE.
	16:30 - 18:00	1.50	C	01		RIG DN. SLIDE ROTAFLEX UNIT. HANG OF RODS. PUT WELL ON PRODUCTION. RACK OUT PUMP LINES & EQUIPMENT. CLEAN UP LOCATION. TRANSFER OIL OUT OF FLOWBACK TNKS INTO PRODUCTION TNKS. SHUT DOWN.
	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 08:30	1.50	C	06		TSIP=75 PSI bled well dwn SLIDE ROTO FLEX
	08:30 - 11:00	2.50	C	06		MIRU PULL OUT 2' PONY ROD HANG RODS OFF RDMO SLIDE ROTO FLEX PUT WELL ON PRODUCTION
	11:00 - 13:30	2.50	C	08		PMP WOULD NOT PMP UP SLIDE ROTO FLEX... MIRU... LONG STROKE PMP 50 BBLS OF HOT 2% KCL DWN ANNULAS FILL TBG w 5 BBLS LONG STROKE PMP... PMP WOULD NOT PMP UP
	13:30 - 15:30	2.00	C	08		UNSEAT PMP FLUSH TBG w 60 BBLS OF 2% KCL RESEAT PMP REPLACE POLISH ROD FILL TBG w 5 BBLS OF 2% KCL STROKE TEST PMP TO 1000 PSI TEST GOOD
	15:30 - 17:00	1.50	C	06		RDMO SLIDE ROTO FLEX...TURN WELL OVER TO PRODUCTION

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>9. API NUMBER:</b> 43013329230000
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 9/1/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input checked="" type="checkbox"/> <b>ACIDIZE</b>  <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>  <input type="checkbox"/> <b>CHANGE WELL STATUS</b>  <input type="checkbox"/> <b>DEEPEN</b>  <input type="checkbox"/> <b>OPERATOR CHANGE</b>  <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>  <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>  <input type="checkbox"/> <b>TUBING REPAIR</b>  <input type="checkbox"/> <b>WATER SHUTOFF</b>  <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b> </div> <div style="width: 33%;"> <input type="checkbox"/> <b>ALTER CASING</b>  <input type="checkbox"/> <b>CHANGE TUBING</b>  <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>  <input type="checkbox"/> <b>FRACTURE TREAT</b>  <input type="checkbox"/> <b>PLUG AND ABANDON</b>  <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>  <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>  <input type="checkbox"/> <b>VENT OR FLARE</b>  <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>  <input type="checkbox"/> <b>OTHER</b> </div> <div style="width: 33%;"> <input type="checkbox"/> <b>CASING REPAIR</b>  <input type="checkbox"/> <b>CHANGE WELL NAME</b>  <input type="checkbox"/> <b>CONVERT WELL TYPE</b>  <input type="checkbox"/> <b>NEW CONSTRUCTION</b>  <input type="checkbox"/> <b>PLUG BACK</b>  <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>  <input type="checkbox"/> <b>TEMPORARY ABANDON</b>  <input type="checkbox"/> <b>WATER DISPOSAL</b>  <input type="checkbox"/> <b>APD EXTENSION</b>            OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  <div style="text-align: center; margin-top: 20px;">         See attached.       </div> <div style="text-align: right; margin-top: 20px;"> <p style="color: red; font-weight: bold;">Approved by the Utah Division of Oil, Gas and Mining</p> <p style="color: red; font-weight: bold;">Date: <u>08/31/2011</u></p> <p style="color: red; font-weight: bold;">By: <u></u></p> </div>		
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez		<b>PHONE NUMBER</b> 713 420-5038
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr. Regulatory Analyst
		<b>DATE</b> 8/19/2011

## Katherine 3-29B4 Procedure

- POOH w/rods, pump, and tubing
- Circulate & Clean wellbore
- Acidize existing perforations (10,236'-12,901') with 40,000 gal of 15% HCL in three separate stages, isolating each stage with retrievable plug and packer
- RIH w/ BHA, tubing, new pump, and rods.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>9. API NUMBER:</b> 43013329230000
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input checked="" type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 9/30/2011	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  See attached operations summary for details.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 420-5038	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/11/2011	

## 1 General

### 1.1 Customer Information

Company	WESTERN
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.	BASIC/1584	Event	WORKOVER LAND
Start Date	9/7/2011	End Date	10/1/2011
Spud Date	4/19/2006	UWI	029-002-S 004-W 30
Active Datum	GROUND LEVEL @6,189.0ft (above Mean Sea Level)		
Afe No./Description	154773/43044 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
9/8/2011	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING DOWN RIG. FILLED OUT JSA
	7:30 11:00	3.50	MIRU	01		P		RD RIG AND MOVED FROM THE 1-17C5 RTO THE 3-29B4 MIRU WHILE PUMPING 60 BBLS DOWN CSG.
	11:00 12:30	1.50	PRDHEQ	39		P		WORKED PUMP OFF SEAT WHILE PUMPING 100 BBLS DOWN CSG
	12:30 13:30	1.00	PRDHEQ	06		P		FLUSHED TUBING W/ 60 BBLS
	13:30 16:30	3.00	PRDHEQ	39		P		TOOH W/ RODS AND PUMP FLUSHING TUBING AS NEEDED W/ 30 BBLS.
	16:30 18:30	2.00	PRDHEQ	16		P		ND WELLHEAD, NU BOPS, RU RIG FLOOR AND RELEASED TAC
9/9/2011	18:30 19:30	1.00	PRDHEQ	39		P		TOOH W/40 JTS 2 7/8 N-80 EUE TBG. TAC DRAGGING UP HOLE. SECURED WELL SDFN.
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA POOH W/ TAC DRAGGING
	7:30 11:00	3.50	PRDHEQ	39		P		TSIP & CSIP @ 50 PSIG BWD, COOH W/ 262 JTS 2-7/8" 8RD EUE TBG, 7" TAC, 7 JTS, +45 PSN, PUP JT, 4-1/2" PBGA, 2 JTS, 5-3/4" NO-GO & SOLID PLUG.
	11:00 12:00	1.00	WLWORK	18		P		RU LONE WOLF WIRE LINE UNIT RIH W/ CCL / JB / 4" GR TAG @ 12,925' POOH RDMO W/ LONE WOLF WIRE LINE UNIT.
9/10/2011	12:00 18:00	6.00	PRDHEQ	39		P		MOLRU W/ FOUR STAR HYDRO-TESTING UNIT PU MU & RIH W/ 4-1/8" BIT 5" CSG SCRAPER + 45 PSN, BEG TESTING TBG TO 8500 PSIG TTL OF 208 JTS 2-7/8" 8RD EUE TBG. EOT @ 6290. SWIFN CSDFN CT.
	6:00 7:30	1.50	INSTUB	28		P		CT TGSM & JSA ( HYDROTESTING TBG )
	7:30 13:00	5.50	INSTUB	39		P		CIH HYDROTESTING TBG 96 JTS PROD TBG, PU TESTING 104 JTS W/S TAG W/ 15' OUT JT# 408 @ 12,926'. RDMOL W/ FOUR STAR TESTING EQ.,
9/11/2011	13:00 18:00	5.00	PRDHEQ	39		P		POOH W/ 408 JTS 2-7/8" 8RD EUE TBG, 5" CSG SCRAPER, 4-1/8" BIT.
	6:00 8:00	2.00	SITEPRE	28		P		TGSM & JSA ( HAULING AND HEATING WTR )
	8:00 16:00	8.00	SITEPRE	18		P		HAUL & HEAT WTR FOR ACID JOB
9/12/2011	16:00 18:00	2.00	SITEPRE	18		P		WAIT ON ACID TRANSPORT (DID NOT SHOW UP W/ ACID AS SCHEDULED)
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( RIH W/ PLG & PKR )

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	7:30 12:00	4.50	PRDHEQ	39		P		RIH W/ 5" RBP, RET HEAD, 4' 2-3/8" PUP JT., 5" HD PKR, +45 PSN, 407 JTS 2-7/8" 8RD EUE TBG. ATTEMPT TO SET PLG @ 12,910' W/ NO SUCCESS
	12:00 13:00	1.00	PRDHEQ	06		P		PUMP 100 BBLS DOWN TBG @ 240"
	13:00 14:00	1.00	PRDHEQ	27		P		SET PLG ( 10' OUT JT # 407 ) @ 12,910'
	14:00 14:30	0.50	PRDHEQ	39		P		L/D 1 JT COOH W/ 30 JTS 2-7/8" 8RD EUE TBG. PU 1-6', 1-4', 1-10' x 2-7/8" PUP JTS SET PKR @ 11,940' SWIFN, CSDFN CT.
9/13/2011	6:00 7:30	1.50	STG01	28		P		CT TGSM & JSA ( PUMPING CEMENT )
	7:30 10:00	2.50	STG01	42		P		WAIT ON FRAC TECH ACID & EQUIPMENT RELEASE RIG CREW FOR DAY.
9/14/2011	6:00 8:00	2.00	MIRU	28		P		MOL W/ FRAC TECH TGSM & JSA.( PUMPING ACID ) RU & PRESSURE TEST LINES & EQ, TO 9250
	8:00 8:30	0.50	STG01	35		P		BEGIN PUMPING DOWN CSG @ 2 BPM. EST. INJECTION RATE 10 BPM @ 8000 PSIG TBG BLEW UP PRESSURE FELL TO 200 PSIG.
	8:30 13:00	4.50	PRDHEQ	35		P		POOH W/ 2-7/8" 8RD EUE TBG FOUND HOLE LEAK @ 7800' + OR - RIH RE SET PKR @ 11,940. SWIFD CSDFD CT.
9/15/2011	6:00 7:30	1.50	STG01	35		P		TGSM & JSA ( PUMPING ACID )
	7:30 9:30	2.00	STG01	35		P		PUMP 60 BBLS KCL, 6000 GAL 15% HCL, 7500 GAL HCL W/ 360 BIO BALLS FOR DIVERSION. 1500 GAL 15 % HCL, FLUSH 10 OVER BTM PERF. ISDP @ VAC. AVE RATE 10.6 MAX RATE 13.4 BPM. MAX PRES 6500# PSI AVE PRESSURE 3500 PSIG.
	9:30 12:30	3.00	STG02	39		P		RIH RET RBP POOH W/ 43 JTS ATTEMPT TO SET PLUG @ 11930' W/ NOT SET. WORK UP DOWN HOLE 200' W/ NOT SET.
	12:30 15:30	3.00	STG02	39		P		POOH W/ 376 JTS 2-7/8" TBG L/D PLUG & PKR.
	15:30 21:00	5.50	STG02	39		P		RIH WCS 5" RBP, RET HEAD, 2-3/8" PUP JT., 5" WCS HD PKR, 376 JTS 2-7/8" REATTEMPT TO SET PLUG W/ SAME RESULTS. SWIFN CSDFN CT.
9/16/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30 12:00	4.50	PRDHEQ	39		P		POOH W/ 376 JTS 2-7/8" 8RD EUE TBG L/D & RETIRE WCS 5" PKR & RBP
	12:00 16:00	4.00	PRDHEQ	39		P		RIH W/ GRACO PLG & PKR, 318 JTS 2-7/8" 8RD EUE STACK OUT 10,318'
	16:00 20:00	4.00	PRDHEQ	39		P		POOH W/ 318 JTS 2-7/8" 8RD EUE TBG, 5" TOOLS HAD SCRAPE MARKS UP ONE SIDE. L/D & RETIRE TOOLS. SWIFN CSDFN CT.
9/17/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PU DCS ) CSIP @ 350# PSIG, BWD
	7:30 15:00	7.50	PRDHEQ	39		P		PUMU & RIH W/ 6' 3-1/8" MULE SHOE STINGER, 4-1/8" STRING MILL, 4 3-1/8" DCS PAC X EUE X/O. PU 103 JTS 2-3/8" 8RD EUE TBG. C/O TO 2-7/8" EUE TAG 15' OUT W/ 2-7/8" JT # 218. WORK THROUGH TIGHT SPOT.
	15:00 17:00	2.00	PRDHEQ	45		P		PU PWR SWIVEL BREAK CIRCULATION W/ 338 BBLS BEGIN CLEANING UP TIGHT SPOT FROM 10,318 TO 10,322. POWER SWIVEL BROKE DOWN. RIG DOWN SWVL.
	17:00 20:00	3.00	PRDHEQ	06		P		RIH W/ 80 JTS 2-7/8" 8RD EUE TBG. CIRCULATE WELL CLEAN WHILE WAITING ON POWER SWIVEL. POOH W/ 80 JTS PU PWR SWIVEL.
	20:00 21:00	1.00	PRDHEQ	45		P		CONTINUE CLEANING UP BAD SPOT IN CASING UNTIL NO TOURQUE CHANGES.
	21:00 22:00	1.00	PRDHEQ	39		P		RIG DOWN POWER SWIVEL. POOH ABOVE LINER TOP. SWIFN CSDFN CT.
9/18/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30 11:00	3.50	PRDHEQ	39		P		CSIP & TSIP @ 300# PSIG, BWD, COOH W/ 206 JTS 2-7/8" 8RD EUE TBG, L/D 103 JTS 2-3/8" 8RD EUE TBG, L/D DCS & STRING MILL.
	11:00 16:00	5.00	PRDHEQ	39		P		PUMU & RIH W/ 5" GRACO RBP, RET HEAD, 4' 2-3/8" PUP JT., 5" HD PKR, 328 JTS 2-7/8" 8RD EUE TBG. PLUG STUCK @ 10,423' BREAK CIRCULATION, WORK FREE.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	16:00 20:00	4.00	PRDHEQ	39		P		POOH W/ 328 JTS 2-7/8" 8RD EUE TBG, RETIRE PLG & PKR. SWIFN, CSDFN CT.
9/19/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PU DCS )
	7:30 9:30	2.00	PRDHEQ	24		P		PUMU & RIH W/ 4-1/8" WTR MELON MILL, B/S, BOWEN JARS, 4 3-1/8" DCS, X/O, 103 JTS 2-3/8" 8RD EUE TBG,
	9:30 11:30	2.00	PRDHEQ	39		P		C/O TO 2-7/8" TBG EQ., CIH W/ 218 JTS 2-7/8" 8RD EUE TBG. TAG @ 10355'.
	11:30 16:30	5.00	PRDHEQ	06		P		PU PWR SWVL, BREAK CIRCULATION W/ BBLS. WORK THROUGH TIGHT SPOTS @ 10355',10,391',10,423' SWIVEL DOWN TO 10,472' ( W/ JT # 222 ) .
	16:30 17:30	1.00	PRDHEQ	06		P		CIH W/ 46 JTS 2-7/8" 8RD EUE TBG RU PWR SWIVEL WORK THROUGH PLUG SETTING AREA FOR STAGE 2'. RD PWR SWVL.
	17:30 19:30	2.00	PRDHEQ	39		P		POOH W/ 62 JTS 2-7/8" 8RD EUE TBG EOT @ 9960'. SWIFN CSDFN CT.
9/20/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30 11:30	4.00	PRDHEQ	39		P		COOH W/ 206 JTS 2-7/8" 8RD EUE TBG, C/O TO 2-3/8" EQ., POOH W/ 103 JTS 2-3/8" 8RD EUE TBG, L/D DCS & BHA.
	11:30 13:00	1.50	WLWORK	26		P		MOLRU LONE WOLF WIRE LINE, RIH & SET 5" WCS CBP @ 11,930'. RDMOL W/ LONE WOLF
	13:00 18:00	5.00	PRDHEQ	39		P		PU MU & RIH W/ GRACO 5" HD PKR, 342 JTS 2-7/8" 8RD EUE TBG, SET @ 10850'. SWIFN CSDFN CT.
9/21/2011	11:00 12:30	1.50	STG02	28		P		CT TGSM & JSA ( PUMPING ACID )
	12:30 14:30	2.00	STG02	42		P		WAIT ON FRAC TECH
	14:30 15:30	1.00	STG02	18		P		MOLRU FRAC TECH ACID EQ., FILL CSG W/ 228 BBLS INJECT .2 BPM @ 1500 PSIG
	15:30 17:00	1.50	STG02	35		P		PUMP AS PROCEDURE EST INJECTION RATE W/ 68 BBLS KCL PUMP 5670 GAL 15% HCL ACID, 7602 GAL 15% HCL ACID W/ 620 BIO BALLS, 1680 GAL 15% HCL ACID, FLUSH W/ 91 BBLS KCL. ISDP @ 194 PSIG F.G .45, AVE PRES @ 4267 @ 10 BPM, MX PRES @ 6597 @ 12.4 BPM RDMOL W/ FRAC TECH
	17:00 18:00	1.00	PRDHEQ	39		P		RELEASE PKR, POOH W/ 74 JTS 2-7/8" ( DRAGGING THROUGH PERFS ) EOT @ 8541, SWIFN CSDFN CT.
9/22/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PUMP & RETURN LINES )
	7:30 11:00	3.50	PRDHEQ	39		P		TSIP & CSIP @ 150 PSIG, BWD, COOH W/ 268 JTS 2-7/8" 8RD EUE TBG, L/D & RETIRE PKR.
	11:00 12:30	1.50	WLWORK	26		P		MOLRU LONE WOLF WIRE LINE UNIT, RIH W/ 4" GR/JB/CCL TO 10,900', RIH SET 5" WSC CBP @ 10,850', RDMOL W/ WIRE LINE UNIT.
	12:30 14:30	2.00	PRDHEQ	39		P		PU MU RIH W/ 5" GRACO PKR, 322 JTS 2-7/8" 8RD EUE TBG, SET @ 10,220'.
	14:30 15:30	1.00	STG03	18		P		F&T CSG W/ 223 BBLS TO 1500 PSIG GOOD TEST. SWIFN CSDFN CT.
9/23/2011	11:00 12:30	1.50	STG03	28		P		CT TGSM & JSA ( PUMPING ACID )
	12:30 14:00	1.50	STG03	18		P		MOLRU FRAC TECH ACID EQ.
	14:00 16:00	2.00	STG03	35		P		PRESSURE TEST LINES & EQ., TO 7500 PSIG,PUMP STAGE 3 ACID AS PROCEDURE. LOAD TBG W/ 53 BBLS KCL, PUMP 4998 GAL 15% HCL, 6048 GAL W/ 222 BIO-SEALERS, FLUSH W/ 82 BBLS KCL, ISDP @ 1105. RDMOL W/ FRAC TECH ACID EQ.,
	16:00 18:00	2.00	PRDHEQ	39		P		RELEASE PKR POOH W/ 200 JTS 2-7/8" 8RD EUE TBG, SWIFD CSDFD CT. EOT @ 3900'.
9/24/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30 9:30	2.00	PRDHEQ	39		P		POOH W/ 222 JTS 2-7/8" 8RD EUE TBG, L/D & RETIRE PKR

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	9:30 15:30	6.00	PRDHEQ	39		P		PUMU & RIH W/ 4-1/8" BIT, BIT SUB, 103 JTS 2-3/8" 8RD EUE TBG, X/O TO 2-7/8" 8RD EUE TBG, 199 JTS 2-7/8" 8RD EUE TBG, SWIFN CSDFN CT.
9/25/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POWER SWIVEL OPERATIONS )
	7:30 10:30	3.00	PRDHEQ	39		P		RIH W/ 28 JTS 2-7/8" 8RD EUE TBG TAG @ 10,850' LAY DOWN 1 JT RU PWR SWVL BREAK CIRCULATION W/ 328 BBLS CIRC CLEAN, DRILL OUT CBP @ 10,850'
	10:30 14:30	4.00	PRDHEQ	39		P		RIH W/ 42 JTS TAG @ 11,830' ( PLUG @ 11,930' ) RU PWR SWIVEL BREAK CIRCULATION OIL PUMP ON GEAR END OF PUMP WENT OUT. PUMP BEGIN GETTING HOT. RD PWR SWIVEL.
	14:30 15:30	1.00	PRDHEQ	39		P		POOH W/ 70 JTS 2-7/8" 8RD EUE TBG. SWIFWE CSDFW CT.
9/26/2011								SDFWE
9/27/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PUMP OPERATIONS )
	7:30 9:30	2.00	PRDHEQ	18		P		TSIP 850 PSIG, CSIP @ 850 PSIG, BWD, MU & RIH W/ 70 JTS 2-7/8" 8RD EUE TBG, TAG @ 11,830
	9:30 17:30	8.00	PRDHEQ	18		P		PU PWR SWIVEL BREAK CIRCULATION W/ 385 BBLS, PUMPING 5.5 BPM RETURNING 1.5 BPM. SWIVEL DOWN W/ 4 JTS TO 11,927 MAKE 1' TO 11,928' C/NOT MAKE HOLE, LOTS OF TOURQUE GOT BACK COMPOSIT PLUG PARTS & FRAC SAND. PU CIRC CLEAN RD PWR SWIVEL.
	17:30 19:00	1.50	PRDHEQ	39		P		POOH W/ 143 JTS 2-7/8" 8RD EUE TBG, EOT @ 7430' SWIFN CSDFN CT.
9/28/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( TRAPPED PRESSURE )
	7:30 10:30	3.00	PRDHEQ	39		P		TSIP & CSIP @ 850# PSIG, BWD, COOH W/ 129 JTS 2-7/8" 8RD EUE TBG, X/O TO 2-3/8" EUE, 103 JTS 2-3/8" EUE, BIT SUB, 4-1/8" BIT.
	10:30 15:00	4.50	PRDHEQ	39		P		MU & RIH W/ 4-1/8" MILL, 103 JTS 2-3/8" 8RD EUE TBG, X/O TO 2-7/8" EUE, 272 JTS 2-7/8" 8RD EUE TBG, TAG @ 11,928' PU PWR SWIVEL.
	15:00 19:30	4.50	PRDHEQ	06		P		RU PUMP & RETURN LINES, BREAK CURCULATION WITH, 262 BBLS. DRILL OUT CBP @ 11,928' PUSH TO 11,988' PU CIRC CLEAN.
	19:30 21:00	1.50	PRDHEQ	39		P		RD PWR SWVL POOH W/ 70 JTS EOT @ 9650'. SWIFN CSDFN CT.
9/29/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( LOCK OUT TAG OUT )
	7:30 10:30	3.00	PRDHEQ	10		P		TSIP & CSIP @ 50 PSIG, BWD, MU & RIH W/ 70 JTS 2-7/8" 8RD EUE TBG, TAG @ 11,928'. RU PWR SWVL BREAK CIRCULATION W/ 275 BBLS, FELL THROUGH @ 11,948' SWVL DOWN 2 ADDITIONAL JTS. CIRC CLEAN.
	10:30 11:30	1.00	PRDHEQ	39		P		RD PWR SWVL CIH W/ 27 JTS, TAG FILL @ 11,926' ( 25' RAT HOLE )
	11:30 18:30	7.00	PRDHEQ	39		P		LAY DOWN 2-7/8" WORK STRING COOH W/ 2-7/8" PROD TBG, L/D 103 JTS 2-3/8" WORK STRING L/D & RETIRE 4-1/8" MILL. SWIFN CSDFN CT.
9/30/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( NIPPLE DOWN BOPS )
	7:30 12:30	5.00	PRDHEQ	39		P		CSIP @ 50 PSIG, BWD, PUMU & RIH W/ 5-3/4" NOGO, 2-7/8" SOLID PLUG, 2 JTS, 4-1/2" PBGA, 6' PUP JT., +45 PSN, 7 JTS, 7" WCS TAC, 304 JTS 2-7/8" 8RD EUE TBG. SET TAC & TEMP LAND TBG.
	12:30 13:30	1.00	PRDHEQ	16		P		NIPPLE DOWN BOPS, LAND TBG W/ 25K TENSION.
	13:30 14:30	1.00	PRDHEQ	06		P		FLUSH TBG W/ 70 BBLS.
	14:30 18:30	4.00	PRDHEQ	03		P		PU STROKE TEST MU & RIH W/ 2-1/2" X 1-3/4" X 36' WALS RHBC, PU 24 1" W/G CIH W/ 127 3/4" ( 10 W/G, 46 SLICK, 71 W/G ) PU 9 NEW 3/4" W/G, CIH W/ 117 7/8" W/G. SWIFN CSDFN CT.
10/1/2011	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( RIH W/ RODS )

**2.1 Operation Summary (Continued)**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 8:30	1.00	PRDHEQ	39		P		RIH W/ 113 1" SPACE OUT W/ 2-6',2-4',1-2' & 1-1/2" X 36' P-ROD
	8:30 9:00	0.50	PRDHEQ	18		P		F&T TBG W/ 18 BBLS L/S TO 1000# PSIG. GOOD TEST & GOOD PUMP ACTION.
	9:00 10:30	1.50	RDMO	02		P		RIG DOWN SLIDE UNIT. HAVE ELECTRIC ISSUES MOL W/ RIG TO CASE 2-31 B4
	10:30 12:00	1.50	INARTLT	09		P		REPAIR UNIT PWOP

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
**CDW**

**X - Change of Operator (Well Sold)**

**Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**6/1/2012**

**FROM: (Old Operator):**

N3065- El Paso E&P Company, L.P.  
 1001 Louisiana Street  
 Houston, TX. 77002

Phone: 1 (713) 997-5038

**TO: ( New Operator):**

N3850- EP Energy E&P Company, L.P.  
 1001 Louisiana Street  
 Houston, TX. 77002

Phone: 1 (713) 997-5038

**CA No.**

**Unit:**

**N/A**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/27/2012
- Is the new operator registered in the State of Utah:          Business Number: 2114377-0181
- (R649-9-2) Waste Management Plan has been received on: Yes
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 6/25/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: Second Oper Chg

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/29/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/29/2012
- Bond information entered in RBDMS on: 6/29/2012
- Fee/State wells attached to bond in RBDMS on: 6/29/2012
- Injection Projects to new operator in RBDMS on: 6/29/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
- The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 6/29/2012

**COMMENTS:**

Disposal and Injections wells will be moved when UIC 5 is received.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

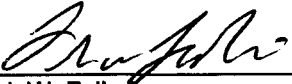
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases
2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
COUNTY:		10. FIELD AND POOL, OR WILDCAT: See Attached
STATE: UTAH		

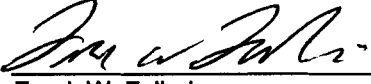
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change of</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Name/Operator</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

  
Frank W. Falleri  
Vice President  
El Paso E&P Company, L.P.

  
Frank W. Falleri  
Sr. Vice President  
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) <u>Maria S. Gomez</u>	TITLE <u>Principal Regulatory Analyst</u>
SIGNATURE <u>Maria S. Gomez</u>	DATE <u>6/22/2012</u>

(This space for State use only)

RECEIVED

JUN 25 2012

DIV. OF OIL, GAS & MINING

APPROVED 6/29/2012  
Rachael Medina  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
Rachael Medina

(See Instructions on Reverse Side)

Well Name	Sec	TWP	RNG	API Number	Entity	Lease Type	Well Type	Well Status	Conf
DWR 3-17C6	17	030S	060W	4301350070		14204621118	OW	APD	C
LAKEWOOD ESTATES 3-33C6	33	030S	060W	4301350127		1420H621328	OW	APD	C
YOUNG 3-15A3	15	010S	030W	4301350122		FEE	OW	APD	C
WHITING 4-1A2	01	010S	020W	4301350424		Fee	OW	APD	C
EL PASO 4-34A4	34	010S	040W	4301350720		Fee	OW	APD	C
YOUNG 2-2B1	02	020S	010W	4304751180		FEE	OW	APD	C
LAKE FORK RANCH 3-10B4	10	020S	040W	4301350712	18221	Fee	OW	DRL	C
LAKE FORK RANCH 4-26B4	26	020S	040W	4301350714	18432	Fee	OW	DRL	C
LAKE FORK RANCH 4-24B4	24	020S	040W	4301350717	18315	Fee	OW	DRL	C
Cook 4-14B3	14	020S	030W	4301351162	18449	Fee	OW	DRL	C
Peterson 4-22C6	22	030S	060W	4301351163	18518	Fee	OW	DRL	C
Lake Fork Ranch 4-14B4	14	020S	040W	4301351240	99999	Fee	OW	DRL	C
Melesco 4-20C6	20	030S	060W	4301351241	99999	Fee	OW	DRL	C
Peck 3-13B5	13	020S	050W	4301351364	99999	Fee	OW	DRL	C
Jensen 2-9C4	09	030S	040W	4301351375	99999	Fee	OW	DRL	C
El Paso 3-5C4	05	030S	040W	4301351376	18563	Fee	OW	DRL	C
ULT 6-31	31	030S	020E	4304740033		FEE	OW	LA	
OBERHANSKY 2-2A1	02	010S	010W	4304740164		FEE	OW	LA	
DWR 3-15C6	15	030S	060W	4301351433		14-20-H62-4724	OW	NEW	C
Lake Fork Ranch 5-23B4	23	020S	040W	4301350739		Fee	OW	NEW	
Duchesne Land 4-10C5	10	030S	050W	4301351262		Fee	OW	NEW	C
Cabinland 4-9B3	09	020S	030W	4301351374		Fee	OW	NEW	C
Layton 4-2B3	02	020S	030W	4301351389		Fee	OW	NEW	C
Golinski 4-24B5	24	020S	050W	4301351404		Fee	OW	NEW	C
Alba 1-21C4	21	030S	040W	4301351460		Fee	OW	NEW	C
Allison 4-19C5	19	030S	050W	4301351466		Fee	OW	NEW	C
Seeley 4-3B3	03	020S	030W	4301351486		Fee	OW	NEW	C
Allen 4-25B5	25	020S	050W	4301351487		Fee	OW	NEW	C
Hewett 2-6C4	06	030S	040W	4301351489		Fee	OW	NEW	C
Young 2-7C4	07	030S	040W	4301351500		Fee	OW	NEW	C
Brighton 3-31A1E	31	010S	010E	4304752471		Fee	OW	NEW	C
Hamaker 3-25A1	25	010S	010W	4304752491		Fee	OW	NEW	C
Bolton 3-29A1E	29	010S	010E	4304752871		Fee	OW	NEW	C
HORROCKS 5-20A1	20	010S	010W	4301334280	17378	FEE	OW	OPS	C
DWR 3-19C6	19	030S	060W	4301334263	17440	14-20-462-1120	OW	P	
DWR 3-22C6	22	030S	060W	4301334106	17298	14-20-462-1131	OW	P	
DWR 3-28C6	28	030S	060W	4301334264	17360	14-20-462-1323	OW	P	
UTE 1-7A2	07	010S	020W	4301330025	5850	14-20-462-811	OW	P	
UTE 2-17C6	17	030S	060W	4301331033	10115	14-20-H62-1118	OW	P	
WLR TRIBAL 2-19C6	19	030S	060W	4301331035	10250	14-20-H62-1120	OW	P	
CEDAR RIM 10-A-15C6	15	030S	060W	4301330615	6420	14-20-H62-1128	OW	P	
CEDAR RIM 12A	28	030S	060W	4301331173	10672	14-20-H62-1323	OW	P	
UTE-FEE 2-33C6	33	030S	060W	4301331123	10365	14-20-H62-1328	OW	P	
TAYLOR 3-34C6	34	030S	060W	4301350200	17572	1420H621329	OW	P	
BAKER UTE 2-34C6	34	030S	060W	4301332634	14590	14-20-H62-1329	OW	P	
UTE 3-35Z2 K	35	010N	020W	4301331133	10483	14-20-H62-1614	OW	P	
UTE 1-32Z2	32	010N	020W	4301330379	1915	14-20-H62-1702	OW	P	
UTE TRIBAL 1-33Z2	33	010N	020W	4301330334	1851	14-20-H62-1703	OW	P	
UTE 2-33Z2	33	010N	020W	4301331111	10451	14-20-H62-1703	OW	P	
UTE TRIBAL 2-34Z2	34	010N	020W	4301331167	10668	14-20-H62-1704	OW	P	
LAKE FORK RANCH 3-13B4	13	020S	040W	4301334262	17439	14-20-H62-1743	OW	P	
UTE 1-28B4	28	020S	040W	4301330242	1796	14-20-H62-1745	OW	P	
UTE 1-34A4	34	010S	040W	4301330076	1585	14-20-H62-1774	OW	P	
UTE 1-36A4	36	010S	040W	4301330069	1580	14-20-H62-1793	OW	P	
UTE 1-1B4	01	020S	040W	4301330129	1700	14-20-H62-1798	OW	P	
UTE 1-31A2	31	010S	020W	4301330401	1925	14-20-H62-1801	OW	P	

UTE 1-25A3	25	010S	030W	4301330370	1920	14-20-H62-1802	OW	P	
UTE 2-25A3	25	010S	030W	4301331343	11361	14-20-H62-1802	OW	P	
UTE 1-26A3	26	010S	030W	4301330348	1890	14-20-H62-1803	OW	P	
UTE 2-26A3	26	010S	030W	4301331340	11349	14-20-H62-1803	OW	P	
UTE TRIBAL 4-35A3	35	010S	030W	4301350274	18009	1420H621804	OW	P	C
UTE 2-35A3	35	010S	030W	4301331292	11222	14-20-H62-1804	OW	P	
UTE 3-35A3	35	010S	030W	4301331365	11454	14-20-H62-1804	OW	P	
UTE 1-6B2	06	020S	020W	4301330349	1895	14-20-H62-1807	OW	P	
UTE 2-6B2	06	020S	020W	4301331140	11190	14-20-H62-1807	OW	P	
UTE TRIBAL 3-6B2	06	020S	020W	4301350273	18008	14-20-H62-1807	OW	P	C
POWELL 4-19A1	19	010S	010W	4301330071	8302	14-20-H62-1847	OW	P	
COLTHARP 1-27Z1	27	010N	010W	4301330151	4700	14-20-H62-1933	OW	P	
UTE 1-8A1E	08	010S	010E	4304730173	1846	14-20-H62-2147	OW	P	
UTE TRIBE 1-31	31	010N	020W	4301330278	4755	14-20-H62-2421	OW	P	
UTE 1-28B6X	28	020S	060W	4301330510	11165	14-20-H62-2492	OW	P	
RINKER 2-21B5	21	020S	050W	4301334166	17299	14-20-H62-2508	OW	P	
MURDOCK 2-34B5	34	020S	050W	4301331132	10456	14-20-H62-2511	OW	P	
UTE 1-35B6	35	020S	060W	4301330507	2335	14-20-H62-2531	OW	P	
UTE TRIBAL 1-17A1E	17	010S	010E	4304730829	860	14-20-H62-2658	OW	P	
UTE 2-17A1E	17	010S	010E	4304737831	16709	14-20-H62-2658	OW	P	
UTE TRIBAL 1-27A1E	27	010S	010E	4304730421	800	14-20-H62-2662	OW	P	
UTE TRIBAL 1-35A1E	35	010S	010E	4304730286	795	14-20-H62-2665	OW	P	
UTE TRIBAL 1-15A1E	15	010S	010E	4304730820	850	14-20-H62-2717	OW	P	
UTE TRIBAL P-3B1E	03	020S	010E	4304730190	4536	14-20-H62-2873	OW	P	
UTE TRIBAL 1-22A1E	22	010S	010E	4304730429	810	14-20-H62-3103	OW	P	
B H UTE 1-35C6	35	030S	060W	4301330419	10705	14-20-H62-3436	OW	P	
BH UTE 2-35C6	35	030S	060W	4301332790	15802	14-20-H62-3436	OW	P	
MCFARLANE 1-4D6	04	040S	060W	4301331074	10325	14-20-H62-3452	OW	P	
UTE TRIBAL 1-11D6	11	040S	060W	4301330482	6415	14-20-H62-3454	OW	P	
CARSON 2-36A1	36	010S	010W	4304731407	737	14-20-H62-3806	OW	P	
UTE 2-14C6	14	030S	060W	4301330775	9133	14-20-H62-3809	OW	P	
DWR 3-14C6	14	030S	060W	4301334003	17092	14-20-H62-3809	OW	P	
THE PERFECT "10" 1-10A1	10	010S	010W	4301330935	9461	14-20-H62-3855	OW	P	
BADGER-SAM H U MONGUS 1-15A1	15	010S	010W	4301330949	9462	14-20-H62-3860	OW	P	
MAXIMILLIAN-UTE 14-1	14	010S	030W	4301330726	8437	14-20-H62-3868	OW	P	
FRED BASSETT 1-22A1	22	010S	010W	4301330781	9460	14-20-H62-3880	OW	P	
UTE TRIBAL 1-30Z1	30	010N	010W	4301330813	9405	14-20-H62-3910	OW	P	
UTE LB 1-13A3	13	010S	030W	4301330894	9402	14-20-H62-3980	OW	P	
UTE 2-22B6	22	020S	060W	4301331444	11641	14-20-H62-4614	OW	P	
UINTA OURAY 1-1A3	01	010S	030W	4301330132	5540	14-20-H62-4664	OW	P	
UTE 1-6D6	06	040S	060W	4301331696	12058	14-20-H62-4752	OW	P	
UTE 2-11D6	11	040S	060W	4301350179	17667	1420H624801	OW	P	
UTE 1-15D6	15	040S	060W	4301330429	10958	14-20-H62-4824	OW	P	
UTE 2-15D6	15	040S	060W	4301334026	17193	14-20-H62-4824	OW	P	
HILL 3-24C6	24	030S	060W	4301350293	18020	1420H624866	OW	P	C
BARCLAY UTE 2-24C6R	24	030S	060W	4301333730	16385	14-20-H62-4866	OW	P	
BROTHERSON 1-2B4	02	020S	040W	4301330062	1570	FEE	OW	P	
BOREN 1-24A2	24	010S	020W	4301330084	5740	FEE	OW	P	
FARNSWORTH 1-13B5	13	020S	050W	4301330092	1610	FEE	OW	P	
BROADHEAD 1-21B6	21	020S	060W	4301330100	1595	FEE	OW	P	
ASAY E J 1-20A1	20	010S	010W	4301330102	8304	FEE	OW	P	
HANSON TRUST 1-5B3	05	020S	030W	4301330109	1635	FEE	OW	P	
ELLSWORTH 1-8B4	08	020S	040W	4301330112	1655	FEE	OW	P	
ELLSWORTH 1-9B4	09	020S	040W	4301330118	1660	FEE	OW	P	
ELLSWORTH 1-17B4	17	020S	040W	4301330126	1695	FEE	OW	P	
CHANDLER 1-5B4	05	020S	040W	4301330140	1685	FEE	OW	P	
HANSON 1-32A3	32	010S	030W	4301330141	1640	FEE	OW	P	
JESSEN 1-17A4	17	010S	040W	4301330173	4725	FEE	OW	P	

JENKINS 1-1B3	01	020S	030W	4301330175	1790	FEE	OW	P	
GOODRICH 1-2B3	02	020S	030W	4301330182	1765	FEE	OW	P	
ELLSWORTH 1-19B4	19	020S	040W	4301330183	1760	FEE	OW	P	
DOYLE 1-10B3	10	020S	030W	4301330187	1810	FEE	OW	P	
JOS. SMITH 1-17C5	17	030S	050W	4301330188	5510	FEE	OW	P	
RUDY 1-11B3	11	020S	030W	4301330204	1820	FEE	OW	P	
CROOK 1-6B4	06	020S	040W	4301330213	1825	FEE	OW	P	
HUNT 1-21B4	21	020S	040W	4301330214	1840	FEE	OW	P	
LAWRENCE 1-30B4	30	020S	040W	4301330220	1845	FEE	OW	P	
YOUNG 1-29B4	29	020S	040W	4301330246	1791	FEE	OW	P	
GRIFFITHS 1-33B4	33	020S	040W	4301330288	4760	FEE	OW	P	
POTTER 1-2B5	02	020S	050W	4301330293	1826	FEE	OW	P	
BROTHERSON 1-26B4	26	020S	040W	4301330336	1856	FEE	OW	P	
SADIE BLANK 1-33Z1	33	010N	010W	4301330355	765	FEE	OW	P	
POTTER 1-24B5	24	020S	050W	4301330356	1730	FEE	OW	P	
WHITEHEAD 1-22A3	22	010S	030W	4301330357	1885	FEE	OW	P	
CHASEL MILLER 2-1A2	01	010S	020W	4301330360	5830	FEE	OW	P	
ELDER 1-13B2	13	020S	020W	4301330366	1905	FEE	OW	P	
BROTHERSON 2-10B4	10	020S	040W	4301330443	1615	FEE	OW	P	
FARNSWORTH 2-7B4	07	020S	040W	4301330470	1935	FEE	OW	P	
TEW 1-15A3	15	010S	030W	4301330529	1945	FEE	OW	P	
UTE FEE 2-20C5	20	030S	050W	4301330550	4527	FEE	OW	P	
HOUSTON 1-34Z1	34	010N	010W	4301330566	885	FEE	OW	P	
GALLOWAY 1-18B1	18	020S	010W	4301330575	2365	FEE	OW	P	
SMITH 1-31B5	31	020S	050W	4301330577	1955	FEE	OW	P	
LEBEAU 1-34A1	34	010S	010W	4301330590	1440	FEE	OW	P	
LINMAR 1-19B2	19	020S	020W	4301330600	9350	FEE	OW	P	
WISSE 1-28Z1	28	010N	010W	4301330609	905	FEE	OW	P	
POWELL 1-21B1	21	020S	010W	4301330621	910	FEE	OW	P	
HANSEN 1-24B3	24	020S	030W	4301330629	2390	FEE	OW	P	
OMAN 2-4B4	04	020S	040W	4301330645	9125	FEE	OW	P	
DYE 1-25Z2	25	010N	020W	4301330659	9111	FEE	OW	P	
H MARTIN 1-21Z1	21	010N	010W	4301330707	925	FEE	OW	P	
JENSEN 1-29Z1	29	010N	010W	4301330725	9110	FEE	OW	P	
CHASEL 2-17A1 V	17	010S	010W	4301330732	9112	FEE	OW	P	
BIRCHELL 1-27A1	27	010S	010W	4301330758	940	FEE	OW	P	
CHRISTENSEN 2-8B3	08	020S	030W	4301330780	9355	FEE	OW	P	
LAMICQ 2-5B2	05	020S	020W	4301330784	2302	FEE	OW	P	
BROTHERSON 2-14B4	14	020S	040W	4301330815	10450	FEE	OW	P	
MURRAY 3-2A2	02	010S	020W	4301330816	9620	FEE	OW	P	
HORROCKS 2-20A1 V	20	010S	010W	4301330833	8301	FEE	OW	P	
BROTHERSON 2-2B4	02	020S	040W	4301330855	8420	FEE	OW	P	
ELLSWORTH 2-8B4	08	020S	040W	4301330898	2418	FEE	OW	P	
OMAN 2-32A4	32	010S	040W	4301330904	10045	FEE	OW	P	
BELCHER 2-33B4	33	020S	040W	4301330907	9865	FEE	OW	P	
BROTHERSON 2-35B5	35	020S	050W	4301330908	9404	FEE	OW	P	
HORROCKS 2-4A1 T	04	010S	010W	4301330954	9855	FEE	OW	P	
JENSEN 2-29A5	29	010S	050W	4301330974	10040	FEE	OW	P	
UTE 2-34A4	34	010S	040W	4301330978	10070	FEE	OW	P	
CHANDLER 2-5B4	05	020S	040W	4301331000	10075	FEE	OW	P	
BABCOCK 2-12B4	12	020S	040W	4301331005	10215	FEE	OW	P	
BADGER MR BOOM BOOM 2-29A1	29	010S	010W	4301331013	9463	FEE	OW	P	
BLEAZARD 2-18B4	18	020S	040W	4301331025	1566	FEE	OW	P	
BROADHEAD 2-32B5	32	020S	050W	4301331036	10216	FEE	OW	P	
ELLSWORTH 2-16B4	16	020S	040W	4301331046	10217	FEE	OW	P	
RUST 3-4B3	04	020S	030W	4301331070	1576	FEE	OW	P	
HANSON TRUST 2-32A3	32	010S	030W	4301331072	1641	FEE	OW	P	
BROTHERSON 2-11B4	11	020S	040W	4301331078	1541	FEE	OW	P	

HANSON TRUST 2-5B3	05	020S	030W	4301331079	1636	FEE	OW	P	
BROTHERSON 2-15B4	15	020S	040W	4301331103	1771	FEE	OW	P	
MONSEN 2-27A3	27	010S	030W	4301331104	1746	FEE	OW	P	
ELLSWORTH 2-19B4	19	020S	040W	4301331105	1761	FEE	OW	P	
HUNT 2-21B4	21	020S	040W	4301331114	1839	FEE	OW	P	
JENKINS 2-1B3	01	020S	030W	4301331117	1792	FEE	OW	P	
POTTER 2-24B5	24	020S	050W	4301331118	1731	FEE	OW	P	
POWELL 2-13A2 K	13	010S	020W	4301331120	8306	FEE	OW	P	
JENKINS 2-12B3	12	020S	030W	4301331121	10459	FEE	OW	P	
MURDOCK 2-26B5	26	020S	050W	4301331124	1531	FEE	OW	P	
BIRCH 3-27B5	27	020S	050W	4301331126	1783	FEE	OW	P	
ROBB 2-29B5	29	020S	050W	4301331130	10454	FEE	OW	P	
LAKE FORK 2-13B4	13	020S	040W	4301331134	10452	FEE	OW	P	
DUNCAN 3-1A2 K	01	010S	020W	4301331135	10484	FEE	OW	P	
HANSON 2-9B3	09	020S	030W	4301331136	10455	FEE	OW	P	
ELLSWORTH 2-9B4	09	020S	040W	4301331138	10460	FEE	OW	P	
UTE 2-31A2	31	010S	020W	4301331139	10458	FEE	OW	P	
POWELL 2-19A1 K	19	010S	010W	4301331149	8303	FEE	OW	P	
CEDAR RIM 8-A	22	030S	060W	4301331171	10666	FEE	OW	P	
POTTER 2-6B4	06	020S	040W	4301331249	11038	FEE	OW	P	
MILES 2-1B5	01	020S	050W	4301331257	11062	FEE	OW	P	
MILES 2-3B3	03	020S	030W	4301331261	11102	FEE	OW	P	
MONSEN 2-22A3	22	010S	030W	4301331265	11098	FEE	OW	P	
WRIGHT 2-13B5	13	020S	050W	4301331267	11115	FEE	OW	P	
TODD 2-21A3	21	010S	030W	4301331296	11268	FEE	OW	P	
WEIKART 2-29B4	29	020S	040W	4301331298	11332	FEE	OW	P	
YOUNG 2-15A3	15	010S	030W	4301331301	11344	FEE	OW	P	
CHRISTENSEN 2-29A4	29	010S	040W	4301331303	11235	FEE	OW	P	
BLEAZARD 2-28B4	28	020S	040W	4301331304	11433	FEE	OW	P	
REARY 2-17A3	17	010S	030W	4301331318	11251	FEE	OW	P	
LAZY K 2-11B3	11	020S	030W	4301331352	11362	FEE	OW	P	
LAZY K 2-14B3	14	020S	030W	4301331354	11452	FEE	OW	P	
MATTHEWS 2-13B2	13	020S	020W	4301331357	11374	FEE	OW	P	
LAKE FORK 3-15B4	15	020S	040W	4301331358	11378	FEE	OW	P	
STEVENSON 3-29A3	29	010S	030W	4301331376	11442	FEE	OW	P	
MEEKS 3-8B3	08	020S	030W	4301331377	11489	FEE	OW	P	
ELLSWORTH 3-20B4	20	020S	040W	4301331389	11488	FEE	OW	P	
DUNCAN 5-13A2	13	010S	020W	4301331516	11776	FEE	OW	P	
OWL 3-17C5	17	030S	050W	4301332112	12476	FEE	OW	P	
BROTHERSON 2-24 B4	24	020S	040W	4301332695	14652	FEE	OW	P	
BODRERO 2-15B3	15	020S	030W	4301332755	14750	FEE	OW	P	
BROTHERSON 2-25B4	25	020S	040W	4301332791	15044	FEE	OW	P	
CABINLAND 2-16B3	16	020S	030W	4301332914	15236	FEE	OW	P	
KATHERINE 3-29B4	29	020S	040W	4301332923	15331	FEE	OW	P	
SHRINERS 2-10C5	10	030S	050W	4301333008	15908	FEE	OW	P	
BROTHERSON 2-26B4	26	020S	040W	4301333139	17047	FEE	OW	P	
MORTENSEN 4-32A2	32	010S	020W	4301333211	15720	FEE	OW	P	
FERRARINI 3-27B4	27	020S	040W	4301333265	15883	FEE	OW	P	
RHOADES 2-25B5	25	020S	050W	4301333467	16046	FEE	OW	P	
CASE 2-31B4	31	020S	040W	4301333548	16225	FEE	OW	P	
ANDERSON-ROWLEY 2-24B3	24	020S	030W	4301333616	16284	FEE	OW	P	
SPROUSE BOWDEN 2-18B1	18	020S	010W	4301333808	16677	FEE	OW	P	
BROTHERSON 3-11B4	11	020S	040W	4301333904	16891	FEE	OW	P	
KOFFORD 2-36B5	36	020S	050W	4301333988	17048	FEE	OW	P	
ALLEN 3-7B4	07	020S	040W	4301334027	17166	FEE	OW	P	
BOURNAKIS 3-18B4	18	020S	040W	4301334091	17264	FEE	OW	P	
MILES 3-12B5	12	020S	050W	4301334110	17316	FEE	OW	P	
OWL and HAWK 2-31B5	31	020S	050W	4301334123	17388	FEE	OW	P	

OWL and HAWK 4-17C5	17	030S	050W	4301334193	17387	FEE	OW	P	
DWR 3-32B5	32	020S	050W	4301334207	17371	FEE	OW	P	
LAKE FORK RANCH 3-22B4	22	020S	040W	4301334261	17409	FEE	OW	P	
HANSON 3-9B3	09	020S	030W	4301350065	17570	FEE	OW	P	
DYE 2-28A1	28	010S	010W	4301350066	17531	FEE	OW	P	
MEEKS 3-32A4	32	010S	040W	4301350069	17605	FEE	OW	P	
HANSON 4-8B3	08	020S	030W	4301350088	17571	FEE	OW	P	C
LAKE FORK RANCH 3-14B4	14	020S	040W	4301350097	17484	FEE	OW	P	
ALLEN 3-9B4	09	020S	040W	4301350123	17656	FEE	OW	P	
HORROCKS 4-20A1	20	010S	010W	4301350155	17916	FEE	OW	P	
HURLEY 2-33A1	33	010S	010W	4301350166	17573	FEE	OW	P	
HUTCHINS/CHIODO 3-20C5	20	030S	050W	4301350190	17541	FEE	OW	P	
ALLEN 3-8B4	08	020S	040W	4301350192	17622	FEE	OW	P	
OWL and HAWK 3-10C5	10	030S	050W	4301350193	17532	FEE	OW	P	
OWL and HAWK 3-19C5	19	030S	050W	4301350201	17508	FEE	OW	P	
EL PASO 4-29B5	29	020S	050W	4301350208	17934	FEE	OW	P	C
DONIHUE 3-20C6	20	030S	060W	4301350270	17762	FEE	OW	P	
HANSON 3-5B3	05	020S	030W	4301350275	17725	FEE	OW	P	C
SPRATT 3-26B5	26	020S	050W	4301350302	17668	FEE	OW	P	
REBEL 3-35B5	35	020S	050W	4301350388	17911	FEE	OW	P	C
FREEMAN 4-16B4	16	020S	040W	4301350438	17935	Fee	OW	P	C
WILSON 3-36B5	36	020S	050W	4301350439	17936	Fee	OW	P	C
EL PASO 3-21B4	21	020S	040W	4301350474	18123	Fee	OW	P	C
IORG 4-12B3	12	020S	030W	4301350487	17981	Fee	OW	P	C
CONOVER 3-3B3	03	020S	030W	4301350526	18122	Fee	OW	P	C
ROWLEY 3-16B4	16	020S	040W	4301350569	18151	Fee	OW	P	C
POTTS 3-14B3	14	020S	030W	4301350570	18366	Fee	OW	P	C
POTTER 4-27B5	27	020S	050W	4301350571	99999	Fee	OW	P	C
EL PASO 4-21B4	21	020S	040W	4301350572	18152	Fee	OW	P	C
LAKE FORK RANCH 3-26B4	26	020S	040W	4301350707	18270	Fee	OW	P	C
LAKE FORK RANCH 3-25B4	25	020S	040W	4301350711	18220	Fee	OW	P	C
LAKE FORK RANCH 4-23B4	23	020S	040W	4301350713	18271	Fee	OW	P	C
LAKE FORK RANCH 4-15B4	15	020S	040W	4301350715	18314	Fee	OW	P	C
LAKE FORK RANCH 3-24B4	24	020S	040W	4301350716	18269	Fee	OW	P	C
GOLINSKI 1-8C4	08	030S	040W	4301350986	18301	Fee	OW	P	C
J ROBERTSON 1-1B1	01	020S	010W	4304730174	5370	FEE	OW	P	
TIMOTHY 1-8B1E	08	020S	010E	4304730215	1910	FEE	OW	P	
MAGDALENE PAPADOPULOS 1-34A1E	34	010S	010E	4304730241	785	FEE	OW	P	
NELSON 1-31A1E	31	010S	010E	4304730671	830	FEE	OW	P	
ROSEMARY LLOYD 1-24A1E	24	010S	010E	4304730707	840	FEE	OW	P	
H D LANDY 1-30A1E	30	010S	010E	4304730790	845	FEE	OW	P	
WALKER 1-14A1E	14	010S	010E	4304730805	855	FEE	OW	P	
BOLTON 2-29A1E	29	010S	010E	4304731112	900	FEE	OW	P	
PRESCOTT 1-35Z1	35	010N	010W	4304731173	1425	FEE	OW	P	
BISEL GURR 11-1	11	010S	010W	4304731213	8438	FEE	OW	P	
UTE TRIBAL 2-22A1E	22	010S	010E	4304731265	915	FEE	OW	P	
L. BOLTON 1-12A1	12	010S	010W	4304731295	920	FEE	OW	P	
FOWLES 1-26A1	26	010S	010W	4304731296	930	FEE	OW	P	
BRADLEY 23-1	23	010S	010W	4304731297	8435	FEE	OW	P	
BASTIAN 1-2A1	02	010S	010W	4304731373	736	FEE	OW	P	
D R LONG 2-19A1E	19	010S	010E	4304731470	9505	FEE	OW	P	
D MOON 1-23Z1	23	010N	010W	4304731479	10310	FEE	OW	P	
O MOON 2-26Z1	26	010N	010W	4304731480	10135	FEE	OW	P	
LILA D 2-25A1	25	010S	010W	4304731797	10790	FEE	OW	P	
LANDY 2-30A1E	30	010S	010E	4304731895	11127	FEE	OW	P	
WINN P2-3B1E	03	020S	010E	4304732321	11428	FEE	OW	P	
BISEL-GURR 2-11A1	11	010S	010W	4304735410	14428	FEE	OW	P	
FLYING J FEE 2-12A1	12	010S	010W	4304739467	16686	FEE	OW	P	

HARVEST FELLOWSHIP CHURCH 2-14B1	14	020S	010W	4304739591	16546	FEE	OW	P	
OBERHANSKY 3-11A1	11	010S	010W	4304739679	17937	FEE	OW	P	
DUNCAN 2-34A1	34	010S	010W	4304739944	17043	FEE	OW	P	
BISEL GURR 4-11A1	11	010S	010W	4304739961	16791	FEE	OW	P	
KILLIAN 3-12A1	12	010S	010W	4304740226	17761	ML 39760	OW	P	
WAINOCO ST 1-14B1	14	020S	010W	4304730818	1420	ML-24306-A	OW	P	
UTAH ST UTE 1-35A1	35	010S	010W	4304730182	5520	ML-25432	OW	P	
STATE 1-19A4	19	010S	040W	4301330322	9118	ML-27912	OW	P	
FEDERAL 2-28E19E	28	050S	190E	4304732849	12117	UTU-0143512	OW	P	
FEDERAL 1-28E19E	28	050S	190E	4304730175	5680	UTU143512	OW	P	
BLANCHARD 1-3A2	03	010S	020W	4301320316	5877	FEE	OW	PA	
W H BLANCHARD 2-3A2	03	010S	020W	4301330008	5775	FEE	OW	PA	
YACK U 1-7A1	07	010S	010W	4301330018	5795	FEE	OW	PA	
JAMES POWELL 3	13	010S	020W	4301330024	8305	FEE	WD	PA	
BASTIAN 1 (3-7D)	07	010S	010W	4301330026	5800	FEE	OW	PA	
LAMICQ-URRUTY 1-8A2	08	010S	020W	4301330036	5975	FEE	OW	PA	
BLEAZARD 1-18B4	18	020S	040W	4301330059	11262	FEE	OW	PA	
OLSEN 1-27A4	27	010S	040W	4301330064	1565	FEE	OW	PA	
EVANS 1-31A4	31	010S	040W	4301330067	5330	FEE	OW	PA	
HAMBLIN 1-26A2	26	010S	020W	4301330083	2305	FEE	OW	PA	
HARTMAN 1-31A3	31	010S	030W	4301330093	10700	FEE	OW	PA	
FARNSWORTH 1-7B4	07	020S	040W	4301330097	5725	FEE	OW	PA	
POWELL 1-33A3	33	010S	030W	4301330105	4526	FEE	OW	PA	
LOTRIDGE GATES 1-3B3	03	020S	030W	4301330117	1625	FEE	OW	PA	
REMINGTON 1-34A3	34	010S	030W	4301330139	1670	FEE	OW	PA	
ANDERSON 1-28A2	28	010S	020W	4301330150	5895	FEE	OW	PA	
RHOADES MOON 1-35B5	35	020S	050W	4301330155	5270	FEE	OW	PA	
JOHN 1-3B2	03	020S	020W	4301330160	5765	FEE	OW	PA	
SMITH 1-6C5	06	030S	050W	4301330163	5385	FEE	OW	PA	
HORROCKS FEE 1-3A1	03	010S	010W	4301330171	5505	FEE	OW	PA	
WARREN 1-32A4	32	010S	040W	4301330174	9139	FEE	OW	PA	
JENSEN FENZEL 1-20C5	20	030S	050W	4301330177	4730	FEE	OW	PA	
MYRIN RANCH 1-13B4	13	020S	040W	4301330180	4524	FEE	OW	PA	
BROTHERSON 1-27B4	27	020S	040W	4301330185	1775	FEE	OW	PA	
JENSEN 1-31A5	31	010S	050W	4301330186	4735	FEE	OW	PA	
ROBERTSON 1-29A2	29	010S	020W	4301330189	4740	FEE	OW	PA	
WINKLER 1-28A3	28	010S	030W	4301330191	5465	FEE	OW	PA	
CHENEY 1-33A2	33	010S	020W	4301330202	1750	FEE	OW	PA	
J LAMICQ STATE 1-6B1	06	020S	010W	4301330210	5730	FEE	OW	PA	
REESE ESTATE 1-10B2	10	020S	020W	4301330215	5700	FEE	OW	PA	
REEDER 1-17B5	17	020S	050W	4301330218	5460	FEE	OW	PA	
ROBERTSON UTE 1-2B2	02	020S	020W	4301330225	1710	FEE	OW	PA	
HATCH 1-5B1	05	020S	010W	4301330226	5470	FEE	OW	PA	
BROTHERSON 1-22B4	22	020S	040W	4301330227	5935	FEE	OW	PA	
ALLRED 1-16A3	16	010S	030W	4301330232	1780	FEE	OW	PA	
BIRCH 1-35A5	35	010S	050W	4301330233	9116	FEE	OW	PA	
MARQUERITE UTE 1-8B2	08	020S	020W	4301330235	9122	FEE	OW	PA	
BUZZI 1-11B2	11	020S	020W	4301330248	6335	FEE	OW	PA	
SHISLER 1-3B1	03	020S	010W	4301330249	5960	FEE	OW	PA	
TEW 1-1B5	01	020S	050W	4301330264	5580	FEE	OW	PA	
EVANS UTE 1-19B3	19	020S	030W	4301330265	1870	FEE	OW	PA	
SHELL 2-27A4	27	010S	040W	4301330266	1776	FEE	WD	PA	
DYE 1-29A1	29	010S	010W	4301330271	99990	FEE	OW	PA	
VODA UTE 1-4C5	04	030S	050W	4301330283	4530	FEE	OW	PA	
BROTHERSON 1-28A4	28	010S	040W	4301330292	9114	FEE	OW	PA	
MEAGHER 1-4B2	04	020S	020W	4301330313	8402	FEE	OW	PA	
NORLING 1-9B1	09	020S	010W	4301330315	1811	FEE	OW	PA	
S. BROADHEAD 1-9C5	09	030S	050W	4301330316	5940	FEE	OW	PA	

TIMOTHY 1-09A3	09	010S	030W	4301330321	10883	FEE	OW	PA
BARRETT 1-34A5	34	010S	050W	4301330323	9115	FEE	OW	PA
MEAGHER TRIBAL 1-9B2	09	020S	020W	4301330325	9121	FEE	OW	PA
PHILLIPS UTE 1-3C5	03	030S	050W	4301330333	1816	FEE	OW	PA
ELLSWORTH 1-20B4	20	020S	040W	4301330351	6375	FEE	OW	PA
LAWSON 1-28A1	28	010S	010W	4301330358	5915	FEE	OW	PA
AMES 1-23A4	23	010S	040W	4301330375	1901	FEE	OW	PA
HORROCKS 1-6A1	06	010S	010W	4301330390	5675	FEE	OW	PA
SHRINE HOSPITAL 1-10C5	10	030S	050W	4301330393	5565	FEE	OW	PA
GOODRICH 1-18B2	18	020S	020W	4301330397	5485	FEE	OW	PA
SWD POWELL 3	13	010S	020W	4301330478	10708	FEE	WD	PA
BODRERO 1-15B3	15	020S	030W	4301330565	4534	FEE	OW	PA
MOON TRIBAL 1-30C4	30	030S	040W	4301330576	2360	FEE	OW	PA
DUNCAN 2-9B5	09	020S	050W	4301330719	5440	FEE	OW	PA
FISHER 1-16A4	16	010S	040W	4301330737	2410	FEE	OW	PA
URRUTY 2-34A2	34	010S	020W	4301330753	9117	FEE	OW	PA
GOODRICH 1-24A4	24	010S	040W	4301330760	2415	FEE	OW	PA
CARL SMITH 2-25A4	25	010S	040W	4301330776	9136	FEE	OW	PA
ANDERSON 1-A30B1	30	020S	010W	4301330783	9137	FEE	OW	PA
CADILLAC 3-6A1	06	010S	010W	4301330834	6316	FEE	OW	PA
MCELPRANG 2-31A1	31	010S	010W	4301330836	8439	FEE	OW	PA
REESE ESTATE 2-10B2	10	020S	020W	4301330837	2417	FEE	OW	PA
CLARK 2-9A3	09	010S	030W	4301330876	2416	FEE	OW	PA
JENKINS 3-16A3	16	010S	030W	4301330877	9790	FEE	OW	PA
CHRISTENSEN 2-26A5	26	010S	050W	4301330905	10710	FEE	OW	PA
FORD 2-36A5	36	010S	050W	4301330911	9630	FEE	OW	PA
MORTENSEN 2-32A2	32	010S	020W	4301330929	9486	FEE	OW	PA
WILKERSON 1-20Z1	20	010N	010W	4301330942	5452	FEE	OW	PA
UTE TRIBAL 2-4A3 S	04	010S	030W	4301330950	10230	FEE	OW	PA
OBERHANSKY 2-31Z1	31	010N	010W	4301330970	9262	FEE	OW	PA
MORRIS 2-7A3	07	010S	030W	4301330977	9725	FEE	OW	PA
POWELL 2-08A3	08	010S	030W	4301330979	10175	FEE	OW	PA
FISHER 2-6A3	06	010S	030W	4301330984	10110	FEE	OW	PA
JACOBSEN 2-12A4	12	010S	040W	4301330985	10480	FEE	OW	PA
CHENEY 2-33A2	33	010S	020W	4301331042	10313	FEE	OW	PA
HANSON TRUST 2-29A3	29	010S	030W	4301331043	5306	FEE	OW	PA
BURTON 2-15B5	15	020S	050W	4301331044	10205	FEE	OW	PA
EVANS-UTE 2-17B3	17	020S	030W	4301331056	10210	FEE	OW	PA
ELLSWORTH 2-20B4	20	020S	040W	4301331090	5336	FEE	OW	PA
REMINGTON 2-34A3	34	010S	030W	4301331091	1902	FEE	OW	PA
WINKLER 2-28A3	28	010S	030W	4301331109	4519	FEE	OW	PA
TEW 2-10B5	10	020S	050W	4301331125	1751	FEE	OW	PA
LINDSAY 2-33A4	33	010S	040W	4301331141	1756	FEE	OW	PA
FIELDSTED 2-28A4	28	010S	040W	4301331293	10665	FEE	OW	PA
POWELL 4-13A2	13	010S	020W	4301331336	11177	FEE	GW	PA
DUMP 2-20A3	20	010S	030W	4301331505	11691	FEE	OW	PA
SMITH 2X-23C7	23	030S	070W	4301331634	12382	FEE	D	PA
MORTENSEN 3-32A2	32	010S	020W	4301331872	11928	FEE	OW	PA
TODD USA ST 1-2B1	02	020S	010W	4304730167	99998	FEE	OW	PA
STATE 1-7B1E	07	020S	010E	4304730180	5555	FEE	OW	PA
BACON 1-10B1E	10	020S	010E	4304730881	5550	FEE	OW	PA
PARIETTE DRAW 28-44	28	040S	010E	4304731408	4537	FEE	OW	PA
REYNOLDS 2-7B1E	07	020S	010E	4304731840	4960	FEE	OW	PA
STATE 2-35A2	35	010S	020W	4301330156	4715	ML-22874	OW	PA
UTAH STATE L B 1-11B1	11	020S	010W	4304730171	5530	ML-23655	OW	PA
STATE 1-8A3	08	010S	030W	4301330286	5655	ML-24316	OW	PA
UTAH FEDERAL 1-24B1	24	020S	010W	4304730220	590	ML-26079	OW	PA
CEDAR RIM 15	34	030S	060W	4301330383	6395	14-20-462-1329	OW	S

UTE TRIBAL 2-24C7	24	030S	070W	4301331028	10240	14-20-H62-1135	OW	S	
CEDAR RIM 12	28	030S	060W	4301330344	6370	14-20-H62-1323	OW	S	
CEDAR RIM 16	33	030S	060W	4301330363	6390	14-20-H62-1328	OW	S	
SPRING HOLLOW 2-34Z3	34	010N	030W	4301330234	5255	14-20-H62-1480	OW	S	
EVANS UTE 1-17B3	17	020S	030W	4301330274	5335	14-20-H62-1733	OW	S	
UTE JENKS 2-1-B4 G	01	020S	040W	4301331197	10844	14-20-H62-1782	OW	S	
UTE 3-12B3	12	020S	030W	4301331379	11490	14-20-H62-1810	OW	S	
UTE TRIBAL 9-4B1	04	020S	010W	4301330194	5715	14-20-H62-1969	OW	S	
UTE TRIBAL 2-21B6	21	020S	060W	4301331424	11615	14-20-H62-2489	OW	S	
UTE 1-33B6	33	020S	060W	4301330441	1230	14-20-H62-2493	OW	S	
UTE 2-22B5	22	020S	050W	4301331122	10453	14-20-H62-2509	OW	S	
UTE 1-18B1E	18	020S	010E	4304730969	9135	14-20-H62-2864	OW	S	
LAUREN UTE 1-23A3	23	010S	030W	4301330895	9403	14-20-H62-3981	OW	S	
UTE 2-28B6	28	020S	060W	4301331434	11624	14-20-H62-4622	OW	S	
UTE 1-27B6X	27	020S	060W	4301330517	11166	14-20-H62-4631	OW	S	
UTE 2-27B6	27	020S	060W	4301331449	11660	14-20-H62-4631	OW	S	
CEDAR RIM 10-15C6	15	030S	060W	4301330328	6365	14-20-H62-4724	OW	S	
UTE 5-30A2	30	010S	020W	4301330169	5910	14-20-H62-4863	OW	S	
UTE TRIBAL G-1 (1-24C6)	24	030S	060W	4301330298	4533	14-20-H62-4866	OW	S	
UTE TRIBAL FEDERAL 1-30C5	30	030S	050W	4301330475	665	14-20-H62-4876	OW	S	
SMB 1-10A2	10	010S	020W	4301330012	5865	FEE	OW	S	
KENDALL 1-12A2	12	010S	020W	4301330013	5875	FEE	OW	S	
CEDAR RIM 2	20	030S	060W	4301330019	6315	FEE	OW	S	
URRUTY 2-9A2	09	010S	020W	4301330046	5855	FEE	OW	S	
BROTHERSON 1-14B4	14	020S	040W	4301330051	1535	FEE	OW	S	
RUST 1-4B3	04	020S	030W	4301330063	1575	FEE	OW	S	
MONSEN 1-21A3	21	010S	030W	4301330082	1590	FEE	OW	S	
BROTHERSON 1-10B4	10	020S	040W	4301330110	1614	FEE	OW	S	
FARNSWORTH 1-12B5	12	020S	050W	4301330124	1645	FEE	OW	S	
ELLSWORTH 1-16B4	16	020S	040W	4301330192	1735	FEE	OW	S	
MARSHALL 1-20A3	20	010S	030W	4301330193	9340	FEE	OW	S	
CHRISTMAN BLAND 1-31B4	31	020S	040W	4301330198	4745	FEE	OW	S	
ROPER 1-14B3	14	020S	030W	4301330217	1850	FEE	OW	S	
BROTHERSON 1-24B4	24	020S	040W	4301330229	1865	FEE	OW	S	
BROTHERSON 1-33A4	33	010S	040W	4301330272	1680	FEE	OW	S	
BROTHERSON 1-23B4	23	020S	040W	4301330483	8423	FEE	OW	S	
SMITH ALBERT 2-8C5	08	030S	050W	4301330543	5495	FEE	OW	S	
VODA JOSEPHINE 2-19C5	19	030S	050W	4301330553	5650	FEE	OW	S	
HANSEN 1-16B3	16	020S	030W	4301330617	9124	FEE	OW	S	
BROTHERSON 1-25B4	25	020S	040W	4301330668	9126	FEE	OW	S	
POWELL 2-33A3	33	010S	030W	4301330704	2400	FEE	OW	S	
BROWN 2-28B5	28	020S	050W	4301330718	9131	FEE	OW	S	
EULA-UTE 1-16A1	16	010S	010W	4301330782	8443	FEE	OW	S	
JESSEN 1-15A4	15	010S	040W	4301330817	9345	FEE	OW	S	
R HOUSTON 1-22Z1	22	010N	010W	4301330884	936	FEE	OW	S	
FIELDSTED 2-27A4	27	010S	040W	4301330915	9632	FEE	OW	S	
HANSKUTT 2-23B5	23	020S	050W	4301330917	9600	FEE	OW	S	
TIMOTHY 3-18A3	18	010S	030W	4301330940	9633	FEE	OW	S	
BROTHERSON 2-3B4	03	020S	040W	4301331008	10165	FEE	OW	S	
BROTHERSON 2-22B4	22	020S	040W	4301331086	1782	FEE	OW	S	
MILES 2-35A4	35	010S	040W	4301331087	1966	FEE	OW	S	
ELLSWORTH 2-17B4	17	020S	040W	4301331089	1696	FEE	OW	S	
RUST 2-36A4	36	010S	040W	4301331092	1577	FEE	OW	S	
EVANS 2-19B3	19	020S	030W	4301331113	1777	FEE	OW	S	
FARNSWORTH 2-12B5	12	020S	050W	4301331115	1646	FEE	OW	S	
CHRISTENSEN 3-4B4	04	020S	040W	4301331142	10481	FEE	OW	S	
ROBERTSON 2-29A2	29	010S	020W	4301331150	10679	FEE	OW	S	
CEDAR RIM 2A	20	030S	060W	4301331172	10671	FEE	OW	S	

HARTMAN 2-31A3	31	010S	030W	4301331243	11026	FEE	OW	S	
GOODRICH 2-2B3	02	020S	030W	4301331246	11037	FEE	OW	S	
JESSEN 2-21A4	21	010S	040W	4301331256	11061	FEE	OW	S	
BROTHERSON 3-23B4	23	020S	040W	4301331289	11141	FEE	OW	S	
MYRIN RANCH 2-18B3	18	020S	030W	4301331297	11475	FEE	OW	S	
BROTHERSON 2-2B5	02	020S	050W	4301331302	11342	FEE	OW	S	
DASTRUP 2-30A3	30	010S	030W	4301331320	11253	FEE	OW	S	
YOUNG 2-30B4	30	020S	040W	4301331366	11453	FEE	OW	S	
IORG 2-10B3	10	020S	030W	4301331388	11482	FEE	OW	S	
MONSEN 3-27A3	27	010S	030W	4301331401	11686	FEE	OW	S	
HORROCKS 2-5B1E	05	020S	010E	4304732409	11481	FEE	OW	S	
LARSEN 1-25A1	25	010S	010W	4304730552	815	FEE	OW	TA	
DRY GULCH 1-36A1	36	010S	010W	4304730569	820	FEE	OW	TA	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013329230000
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/29/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;">           See attached detailed procedure.           <div style="text-align: right; margin-top: 20px;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> January 31, 2013  <b>By:</b> <u><i>D. K. Duff</i></u> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lisa Morales	<b>PHONE NUMBER</b> 713 997-3587	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/28/2013

## Katherine 3-29B4 Tubing Leak Procedure Summary

- POOH w/rods, pump, and tubing
- Acidize existing perms w/ 5,000 gal 15% HCl.
- RIH w/ BHA, tubing and rod string
- Clean location and resume production

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. API NUMBER:</b> 43013329230000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <div style="text-align: center; font-size: 1.2em;">2/7/2013</div> <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION           </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER           </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION           </div> </div>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text" value="Pump to ESP"/>
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

While in the well due to pump down, switching to ESP and acidizing. See attached procedure for details.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** February 11, 2013

**By:** *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/7/2013	

## *Katherine 3-29B4 Summary Prog*

- POOH w/rods, pump, and tubing
- Acidize existing perms w/ 10,000 gal 15% HCl.
- RIH w/ ESP Equipment and tubing
- Clean location and resume production

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> KATHERINE 3-29B4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0670 FSL 1217 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013329230000
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/12/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Changed to ESP"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Changed pump to ESP and acidized existing perfs with 20000 gals of acid. Please see attached daily operations summary report for details.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 17, 2013		
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/16/2013	

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.	PEAK/1100	Event	WORKOVER LAND
Start Date	2/4/2013	End Date	2/13/2013
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active Datum	KB @6,215.0ft (above Mean Sea Level)		
Afe No./Description	160520/47957 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
2/4/2013	6:00 7:30	1.50	MIRU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON ROADING RIG. FILL OUT & REVIEW JSA
	7:30 11:30	4.00	MIRU	01		P		MOVE RIG TO LOCATION. SLIDE PUMPING UNIT & RU RIG
	11:30 18:30	7.00	PRDHEQ	39		P		LD POLISH ROD & WORK 20 1" RODS OUT OF HOLE WHILE PUMPING 256 BLS HOT WTR DOWN CSG. SDFN
2/5/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PUMPING PRESSURE. FILL OUT & REVIEW JSA
	7:30 10:30	3.00	PRDHEQ	39		P		TOOH W/ 98 1" RODS, 108 7/8" RODS, 144 3/4" RODS, 10 WEIGHT RODS & PUMP AS 2 HOT OILERS PUMPED DOWN CSG. STANDING VALVE WAS MISSING FROM PUMP
	10:30 14:00	3.50	PRDHEQ	21		P		CALL & WAIT ON WIRELINE TRUCK. RIH & PERFORATE TBG IN JT ABOVE SEAT NIPPLE. RD WIRELINE TRUCK
	14:00 15:00	1.00	PRDHEQ	06		P		FLUSH TBG W/ 60 BBLS 2% KCL WTR
	15:00 16:30	1.50	PRDHEQ	39		P		TIH W/ 10 WEIGHT RODS & 144 3/4" RODS
	16:30 18:30	2.00	PRDHEQ	24		P		LD 144 3/4" RODS & 10 1" RODS. SDFN
2/6/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON LAYING DOWN RODS. FILL OUT & REVIEW JSA
	7:30 11:00	3.50	PRDHEQ	24		P		RIH, FLUSH & LD 7/8" & 1" RODS
	11:00 14:30	3.50	PRDHEQ	16		P		ND WELLHEAD. NU BOP.
	14:30 18:30	4.00	PRDHEQ	39		P		RU PRS & TOOH W/ 125 JTS 2-7/8" EUE TBG. SDFN
2/7/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SCANNING TBG. FILL OUT & REVIEW JSA
	7:30 11:00	3.50	PRDHEQ	39		P		CONTINUE TOOH SCANNING TBG. FOUND 63 TTL BAD JTS TBG. RD SCANNERS
	11:00 12:00	1.00	WBP	18		P		RU SLICK LINE UNIT. RIH & TAG FILL @ 12890'. POOH & RD SLICKLINE UNIT
	12:00 18:00	6.00	PRDHEQ	39		P		RU HYDROTEST UNIT. RIH W/ 5" PKR, SEAT NIPPLE, X-OVER, 7 JTS 2-7/8"ULTRA FLUSH JT TBG, X-OVER & 198 JTS 2-7/8"EUE TBG, TESTING ALL TBG TO 8500 PSI. SDFN
2/8/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON HYDROTESTING TBG. FILL OUT & REVIEW JSA

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 12:30	5.00	PRDHEQ	39		P		TIH W/ 42 JTS 2-7/8"EUE TBG HYDROTESTING TO 8500 PSI. RD HYDROTESTER. CONTINUE TIH PICKING UP 73 JTS NEW 2-7/8"EUE TBG. SET PKR @ 10200'. FILL CSG W/ 171 BBLS 2% KCL WTR. PRESSURE TEST ANNULUS TO 500 PSI. TESTED GOOD.
	12:30 16:00	3.50	STG01	35		P		RU ACID EQUIPMENT. PRESSURE TEST LINES TO 9000 PSI. PUMP 37 BBLS 2% KCL WTR TO FILL TBG. TREAT ALL PERFS W/ 20000 GALLONS 15% HCL ACID USING 600 BIO BALLS FOR DIVERSION. PUMPED AS FOLLOWS: PUMPED 210 BBLS ACID THEN STARTED DROPPING BALLS. PUMP REMAINING 271 BBLS ACID THEN FLUSHED ACID TO BOTTOM PERF + 10 BBLS W/ 2% KCL WTR. ISIP 0 PSI. AVG RATE 13 BPM. AVG PSI 5172 PSI. MAX RATE 15 BPM. MAX PSI 7075 PSI. RD ACID EQUIPMENT
	16:00 18:30	2.50	PRDHEQ	39		P		RELEASE PKR. LD 20 JTS 2-7/8"EUE TBG. STAND BACK 240 JTS 2-7/8"EUE TBG IN DERRICK. SDFO
2/9/2013	6:00 6:00	24.00						SHUT DOWN FOR WEEKEND
2/10/2013	6:00 6:00	24.00						SHUT DOWN FOR WEEKEND
2/11/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP ESP EQUIPMENT. FILL OUT & REVIEW JSA
	7:30 9:00	1.50	PRDHEQ	39		P		SICP 550 PSI. SITP 600 PSI. BLEED PRESSURE OFF WELL. TOO H W/ 60 JTS 2-7/8" EUE TBG, X-OVER, 7 JTS 2-7/8"ULTRA FLUSH JT TBG, X-OVER & PKR
	9:00 10:00	1.00	PRDHEQ	16		P		NU SPHERICAL BOP
	10:00 15:30	5.50	PRDHEQ	24		P		PU & SERVICE ESP PUMP ASSEMBLY
	15:30 18:00	2.50	PRDHEQ	39		P		TIH W/ PUMP, 1 JT 2-7/8"EUE TBG, DRAIN SUB, 1 JT 2-7/8"EUE TBG, SEAT NIPPLE & 82 JTS 2-7/8"EUE TBG, BANDING 3 BANDS PER JT. SDFN
2/12/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BANDING CABLE TO TBG. FILL OUT & REVIEW JSA
	7:30 15:00	7.50	PRDHEQ	39		P		TIH W/ 224 JTS 2-7/8"EUE TBG, BANDING ESP CABLE & CAPSTRING TO TBG W/ 3 BANDS PER JT & CHECKING CABLE EVERY 20 STDs.
	15:00 18:30	3.50	PRDHEQ	16		P		ND BOP STACK. NU LANDING BOWL. SPLICE PENETRATER. LAND TBG. PLUMB WELLHEAD & FLOWLINES. SDFN
2/13/2013	6:30 7:30	1.00	RDMO	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING DOWN RIG. FILL OUT & REVIEW JSA
	7:30 11:30	4.00	RDMO	02		P		CLEAN CELLAR & STEAM WELLHEAD. RACK OUT BOP EQUIPMENT. PRESSURE TEST WELLHEAD & FLOWLINES TO 500 PSI. FLUSH FLOWLINES W/ 20 BBLS 2% KCL WTR. RDMOL

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013329230000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/28/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EP acidized with 22792 gallons and cleaned hole. Please see attached for details.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 July 17, 2014

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 6/26/2014

## CENTRAL DIVISION

ALTAMONT FIELD  
KATHERINE 3-29B4  
KATHERINE 3-29B4  
WORKOVER LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.	PEAK/1100	Event	WORKOVER LAND
Start date	3/13/2014	End date	
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active datum	KB @6,215.0usft (above Mean Sea Level)		
Afe No./Description	162750/51022 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
3/14/2014	13:00	14:00	1.00	WOR	28		P		MI SPOT IN EQUIPMENT TGSM & JSA ( NU HYDRILL )
	14:00	17:30	3.50	MIRU	01		P		RIG UP, FLUSH TBG W/ 60 BBLs, NU BOPE AND HYDRILL, RU WORK FLOOR AND TBG EQUIPMENT.
3/15/2014	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA ( POOH W/ ESP )
	7:30	8:30	1.00	WOR	28		P		SAFETY ORIENTATION
	8:30	15:30	7.00	WOR	39		P		RU SPOOLERS POOH CUTTING BANDS, CABLE, 3/8" CAP & 306 JTS 2 7/8", DRAIN SUB, 1 JT, PSN, 1 JT, LAY DOWN 4 PUMPS, GAS SEP, TANDOM SEALS, PUMP SEND TO CASPER.
	15:30	16:30	1.00	WOR	16		P		ND HYDRILL, NU WASHINGTON HEAD, X/O TO 2 3/8" EQUIPMENT. SWI, SHUT DOWN FOR WEEK END
3/16/2014	6:00	6:30	0.50	WOR	18		P		NO ACTIVITY SHUT DOWN FOR WEEK END
3/17/2014	6:00	6:30	0.50	WOR	18		P		SHUT DOWN FOR WEEK END
3/18/2014	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA ( RIH W/ TBG )
	7:30	12:30	5.00	WOR	39		P		RIH W/ 4 1/8" MILL, BIT SUB, FLAPPER, 4' PUP JT, FLAPPER, 15 JTS 2 3/8", SAFETY, BAILER, 77 JTS, X/O TO 2 7/8", 214 JTS 2-7/8" 8RD EUE TBG SWI, SHUT DOWN FOR DAY
3/19/2014	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA ( RIH W/ TBG )
	7:30	10:00	2.50	WOR	39		P		CIH TAG TIGHT SPOT @ 10,426' W/ JT# 237, SWIVEL UP PUMP DOWN CASING AT 1 BPM,
	10:00	13:30	3.50	WOR	04		P		WORK AT TIGHT SPOT 10,430'. RD SWIVEL.
	13:30	16:30	3.00	WOR	39		P		POOH W/ 236 JTS X/O TO 2 3/8", 77 JTS, PERF PUP JT, BAILER, SAFETY, 15 JTS, FLAPPER, PUP JT, FLAPPER, BIT SUB, MILL. SWI. SHUT DOWN FOR DAY
3/20/2014	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA ( PU BHA )
	7:30	14:30	7.00	WOR	04		P		RIH W/ 2 7/8" MULE SHOE PUP, 3 1/8" STRING MILL, PUP, 3 1/8" WATER MELON MILL, BUMPER SUB, JARS, 92 JTS 2 3/8", X/O, 234 JTS RU POWER SWIVEL, ROTATE THROUGH TIGHT SPOT @ 10,426', TIGHT SPOT EST 6', CIH TAG TIGHT SPOT @ 10953' RU SWIVEL W/ JT# 251, ROTATE THROUGH TIGHT SPOT, CIH TAG PBTD TM 12,912 W/ JT# 313 (11' RAT HOLE) L/D 10 WORK JTS.
	14:30	15:30	1.00	WOR	06		P		FLUSH TBG W/ 65 BBLs
	15:30	17:30	2.00	WOR	39		P		POOH W/ 140 JTS 2 7/8" FLUSHING AS NEEDED EOT @ 7920' SWI CREW SHUT DOWN FOR DAY
3/21/2014	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30	12:00	4.50	WOR	39		P		COOH W/ 110 JTS 2 7/8" 8RD EUE TBG, POOH W/ 44 JTS, L/D 48 JTS 2 3/8" 8RD EUE TBG, FLUSHING AS NEEDED.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	12:00 18:00	6.00	WOR	39		P		RU HYDRO TESTING UNIT PUMU RIH W/ 5" PLUG, RET HEAD, PUP JT, 5" PACKER, START TESTING TO 8500 PSIG, 44 JTS 2 3/8", X/O TO 2 7/8", 262 JTS 27/8" 8RD EUE TBG EOT @ 9732'
3/22/2014	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA ( HYDROTESTING )
	7:30 9:00	1.50	WOR	39		P		CIH TESTING 52 JTS 2 7/8" TBG TO 8500 PSIG, RD MOL W/ TESTING EQUIPMENT.
	9:00 19:00	10.00	WOR	27		P		ATTEMPT TO SET PLUG @ 11,375' W/ JT# 314, GET PLUG TO TAKE WEIGHT BUT WOULD NOT PULL OVER. RIH W/ 46 JTS J OFF PLUG, PU SET PACKER, RELEASE PACKER RETRIEVE PLUG SET PLUG PULL OVER, RELEASE PLUG, POOH W/ 46 JTS, SPOT 5 BBLS ACID ACROSS PLUG. ATTEMPT TO SET PLUG @ 11,375' , 12,912' , 11,280' , 11,160' , 10,890' , 10,620'. POOH WORK PLUG AND PACKER THROUGH TIGHT SPOT @ 10,430' COOH W/ TBG TO 7158' ( 181 JTS 2 7/8", 44 JTS 2 3/8" ) SWI SHUT DOWN FOR DAY.
3/23/2014	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA ( POOH W/ TBG )
	7:30 9:30	2.00	WOR	39		P		COOH W/ 181 JTS 2 7/8", X/O, 44 JTS 2 3/8" L/D PLUG AND PACKER.
	9:30 11:00	1.50	WLWORK	26		P		RU THE PERFORATORS RIH W/ BAKER 5" CBP, SET @ 11,375' RD WIRE LINE UNIT.
	11:00 16:00	5.00	WOR	39		P		PUMU AND RIH W/ 5" PLUG, RET HEAD, PUP JT, 5" PACKER, RIH W/ 44 JTS 2 3/8", X/O 314 JTS 2 7/8" SET PLUG 10' ABOVE CBP @ 11,365', POOH SET PACKER @ 11,280'
	16:00 18:00	2.00	STG01	35		P		PRESSURE TEST LINES AND EQUIPMENT, SET POP OFF, FILL CASING W/ 222 BBLS START INJECTING 2 BPM @ 1000 PSIG TO 1.5 BPM @ 1500 AT END OF STAGE. FILL TBG W/ 44 BBLS @ 7.5 BPM DROP RATE TO 4.8 BPM @ 5750 PUMP TTL OF 7500 GAL 15% HCL FLUSH 10 OVER BTM PERF. ISDP @ 4325 5/ 4025, 10/ 3780 15/ 3598 AVE RATE 3.2 BPM, MAX RATE 7.5 BPM, AVE PRESSURE 3773 MAX PRESSURE 5881. CASING ISDP @ 500 15/ MIN 450. LET ACID SOAK WHILE PLATINUM FANNED PUMPS.
	18:00 19:30	1.50	WOR	39		P		CASING 0 PSIG, TBG 2950, FLOW BACK 35 BBLS, RELEASE PACKER PULL 30', PULLING FREE, RIH 10' ABOVE RBP PU 30' PULLING FREE, RIH SET 5 DOWN PU ( LATCHED ON ) ATTEMPT TO RELEASE PLUG PULL OVER DROP DOWN WOULD GO DOWN PULL UP 10' ABOVE SETTING( DRAGGING), RU PUMP BREAK CIRCULATION W/ ATTEMPT TO WORK FREE PLUG TAKING WIEGHT 5' ABOVE CBP PULLS OVER W/ NO MOVEMENT. ATTEMPT TO J OFF PLUG W/ NO SUCCESS. SWI DRAIN PUMP & RETURN LINES.
3/24/2014	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA ( PWR SWVL OPERATIONS )
	7:30 12:00	4.50	WOR	39		P		RU SWIVEL RELEASE PLUG SWIVEL OUT 6 JTS DRAGGING AND WORKING THROUGH CSG COLLARS. RD SWIVEL.
	12:00 16:00	4.00	WOR	39		P		COOH PULLING WET W/ 308 JTS 2 7/8", X/O, 44 JTS, L/D PACKER AND PLUG.
	16:00 17:00	1.00	WLWORK	26		P		RU THE PERFORATORS, RIH SET CBP @ 11,280', RD PERFORATORS
	17:00 18:30	1.50	WOR	39		P		PUMU & RIH W/ 5" PACKER, 44 JTS 2 3/8", X/O TO 2 7/8", 54 JTS 2 7/8". EOT @ 3115'
3/25/2014	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON ACIDIZING, WRITE & REVIEW JSA'S
	7:30 9:30	2.00	WOR	39		P		CONT TIH W/ 2-7/8" TBG SET 5" PKR @ 11160'
	9:30 11:30	2.00	WOR	39		P		FILL CSG W/ 55 BBLS 2% KCL, COMMUNICATION W/ TBG, RELEASE PKR LD 3 JTS TBG, SET PKR @ 11050', FILL & HOLD 700 PSI ON CSG, RU ACID CREW, TEST PUMP LINES TO 8200 PSI, ATTEMPT TO GET INJ RATE COMMUNICATE W/ CSG

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	11:30 14:00	2.50	WOR	35		P		RELEASE PKR @ 11050', POOH W/ 13 JTS 2-7/8" TBG, SET PKR @ 10631', FILL & HOLD 1000 PSI ON CSG, GET INJ RATE DWN TBG 8 BPM @ 6760 PSI W/ 25 BBLS 2% KCL, GO TO ACID PUMP 104 BBLS STARTED COMMUNICATING W/ CSG, FLUSH ACID AWAY W/ 80.5 BBLS 2% KCL, BLEED DWN TBG, BLEED OFF CSG
	14:00 20:00	6.00	WOR	24		P		WORK PKR FREE @ 10361' & SET @ 10395', PRESSURE UP & HOLD 1000 PSI ON CSG, EST INJ RATE DWN TBG 8 BPM @ 6505 PSI W/ 25 BBLS, PUMP 67 BBLS 15% HCL ACID, COMMUNICATE W/ CSG, FLUSH W/ 76 BBLS 2% KCL, ATTEMPT TO WORK PKR FREE, RU POWER SWIVEL WORK PKR FREE SWIVEL OUT OF HOLE W/ 13 JTS 2-7/8" TBG, EOT @ 9971', SECURE WELL SDFN
3/26/2014	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON CLEAN WORK AREA'S, WRITE & REVIEW JSA'S
	7:30 12:00	4.50	WOR	35		P		0 PSI ON WELL, TIH W/ 7 JTS 2-7/8" TBG SET PKR @ 10190', FILL CSG W/ 22 BBLS & TEST CSG TO 1000 PSI GOOD TEST, RU ACID CREW, TEST PUMP LINES TO 8000 PSI, PUMP 25 BBLS 2% KCL W/ NO BREAK OR COMMUNICATION @ 8.2 BPM @ 7250 PSI, SWITCH TO ACID PUMP 7900 GALS 15% HCL ACID & FLUSH 10 BBLS PAST BTM PERF, ISIP 3502, 5 MIN 3258 PSI, 10 MIN 3056 PSI, 15 MIN 2885 PSI, AVG RATE 7.1 BPM, MAX RATE 9 BPM, AVG PSI 6280 PSI, MAX PSI 7300 PSI SWI
	12:00 13:00	1.00	RDMO	02		P		RIG DWN & MOVE OUT PLATINUM PUMPING CREW
	13:00 16:30	3.50	WOR	39		P		FLOW BACK WELL TO FLOW BACK TANK TOTAL 33 BBLS, RELEASE PKR TOOH W/ 277 JTS 2-7/8" TBG, 2-7/8" X 2-3/8" EUE X OVER, 44 JTS 2-3/8" EUE N80 WORK STRING TBG & LAY DWN PKR
	16:30 18:30	2.00	WOR	39		P		MU & RIH W/ 4-1/8" BIT, BIT SUB, 93 JTS 2-3/8" WORK STRING TBG, 2-7/8" X 2-3/8" EUE X OVER & 116 JTS 2-7/8" TBG SECURE WELL SDFN
3/27/2014	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON SLIPS & TRIPS, WRITE & REVIEW JSA'S
	7:30 15:30	8.00	WOR	39		P		0 PSI ON WELL, CONT TIH W/ 147 JTS 2-7/8" EUE N-80 TBG, TAG CBP, RU POWER SWIVEL, BREAK CIRC W/ 58 BBLS 2% KCL, DRILL OUT CBP @ 11280' SWIVEL DWN & DRILL OUT CBP @ 11375', RD POWER SWIVEL, CONT TIH TO 12912' TO PBDT
	15:30 18:30	3.00	WOR	39		P		RU PRS SCAN OUT OF HOLE W/ 182 JTS 2-7/8" EUE N-80 TBG SECURE WELL SDFN
3/28/2014	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON SCANNING TBG OUT OF HOLE, WRITE & REVIEW JSA'S
	7:30 12:30	5.00	WOR	39		P		SI CSG & TBG PSI 450 PSI, BLOW DWN WELL, CONT SCANNING OUT OF HOLE W/ 133 JTS 2-7/8" EUE N-80 TBG, RIG SCANNING EQUIP (245 JTS YELLOW BAND, 33 JTS BLUE BAND & 33 JTS RED) LAY DWN 93 JTS 2-3/8" WORK STRING TBG, BIT SUB & 4-1/8" BIT
	12:30 14:00	1.50	WOR	24		P		MU 5-3/4" NO-GO, 2-3/8" EUE N-80 CHEM MANDREL, PU & SERV CENTINEL, MOTOR, DUAL SEALS, GAS SEPERATOR, & 4 PUMPS
	14:00 16:30	2.50	WOR	18		P		RIG GOT SHUT DWN FOR RANDOM DRUG TESTING ON LOC BY EP ENERGY
	16:30 19:00	2.50	WOR	39		P		RU SPOOLERS, HOOK UP ESP CABLE & 1/4" CAP TUBE, RIH W/ ESP EQUIP, 6' X 2-7/8" TBG SUB, 1 JT 2-7/8" EUE N-80 TBG, 2-7/8" DRAIN SUB, 1 JT 2-7/8" TBG, 2-7/8" +45 P.S.N. 2 JTS 2-7/8" EUE N-80 TBG, COLLAR STOP & 76 JTS 2-7/8" EUE N-80 TBG EOT @ 2770' SECURE WELL SDFN
3/29/2014	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON OVER HEAD LOADS, WRITE & REVIEW JSA'S
	7:30 13:00	5.50	WOR	39		P		SITP 150 CSG 50 PSI, BLOW DWN WELL, CONT TIH W/ 226 JTS 2-7/8" EUE N-80 TBG BANDING ESP CABLE & 1/4" CAP TUBE 3 BANDS PER JT

**2.1 Operation Summary (Continued)**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:00 16:30	3.50	WOR	16		P		MAKE UPPER PIG TAIL SPLICE, LAND TBG ON HANGER, RD WORK FLOOR, HYDRILL & BOP, NUWH, HOOK UP FLOW LINES & PRESSURE TEST, START ESP EQUIP, PUMPED UP TO SURFACE IN 43 MIN, RIG DWN RIG PU LOC TURN WELL OVER TO PROD, SDFW

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013329230000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>11/11/2014</b>	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Recomplete into LGR. See attached for details.

**Approved by the**  
**November 10, 2014**  
**Oil, Gas and Mining**

Date: \_\_\_\_\_

By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 11/7/2014

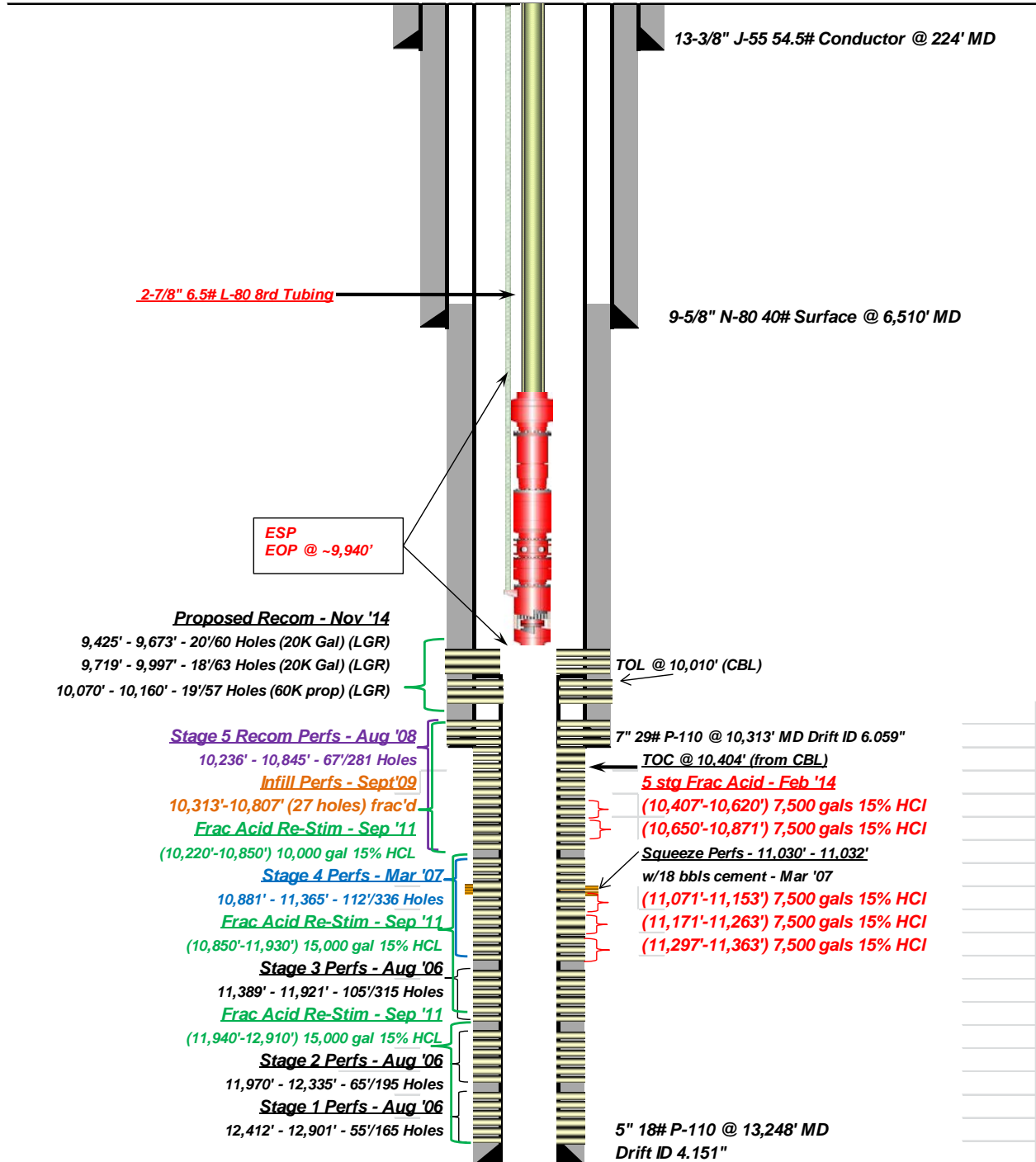
## **Katherine 3-29B4 Recom Summary Procedure**

- POOH with ESP and equipment, inspect/Repair/Re-furbish as needed and test to bring in working condition and put back on Rack (or purchase new as needed). Replace any bad tubing.
- Circulate & Clean wellbore
- RIH with CBP, set plug at ~10,200', set 2<sup>nd</sup> plug at ~ 10,190' dump bail 10' cement on top
- Perforate new LGR interval from ~10,070' – 10,160'
- Prop frac perforations with 60,000 lbs of proppant (STAGE 1 Recom)
- RIH with CBP and set it above Stage 1.
- Perforate new LGR interval from ~9,719' – 9,997'
- Acidize perforations with 20K Gallons of Acid(STAGE 2 Recom)
- RIH with CBP, set plug above stage 2.
- Perforate new LGR interval from ~9,425' – 9,673'
- Acidize perforations with 20K Gallons of Acid(STAGE 3 Recom)
- Clean out well drilling up all CBP's except CBP w/ 10' cmt .
- RIH w/tubing and new ESP Equipment.
- Clean location and resume production.



Proposed Schematic as of November 7, 2014

Company Name: <b>EP Energy</b>	Date: <b>November 7, 2014</b>
Well Name: <b>Katherine 3-29B4</b>	TD: <b>13,260'</b>
Field, County, State: <b>Altamont - Bluebell, Duchesne, Utah</b>	BHL: _____
Surface Location: <b>670' FSL 1217' FWL SW/SW SEC. 29, T2S, R4W</b>	Elevation: _____
Objective Zone(s): <b>Green River, Wasatch</b>	Spud: <b>April 19, 2006</b>



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013329230000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>2/11/2015</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DO Plugs"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Drill out 2 CBPs @ @ 12,166'; 5 CBPs @ 12,160'; CBP @ 10,215'; CBP @ 10,185' & CBP @ 10,013'

Approved by the  
 Feb 10, 2015  
 Oil, Gas and Mining

Date: \_\_\_\_\_

By: D. K. Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 2/10/2015

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:

12. COUNTY

13. STATE

UTAH

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☐DRY ☐

OTHER

b. TYPE OF WORK:

NEW  
WELL ☐HORIZ.  
LATS. ☐DEEP-  
EN ☐RE-  
ENTRY ☐DIFF.  
RESVR. ☐

OTHER

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR:

CITY

STATE

ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED ☐READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD

TVD

19. PLUG BACK T.D.: MD

TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD

PLUG SET:

TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED?

NO ☐YES ☐

(Submit analysis)

WAS DST RUN?

NO ☐YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☐YES ☐

(Submit copy)

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

## 27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

## 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

## 29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

## 30. WELL STATUS:

**31. INITIAL PRODUCTION****INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)****33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

**35. ADDITIONAL REMARKS (Include plugging procedure)**

Set CBP @ 10185' with 10' sand & 10' cmt. Tagged TOC @ 10160'

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

## CENTRAL DIVISION

ALTAMONT FIELD  
KATHERINE 3-29B4  
KATHERINE 3-29B4  
RECOMPLETE LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	11/24/2014	End date	12/11/2014
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active datum	KB @6,215.0ft (above Mean Sea Level)		
Afe No./Description	164024/52795 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/25/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL, HSM WRITE & REVIEW JSA ( TOPIC ) N/U BOP & HYDRILL
	7:00 8:00	1.00	MIRU	01		P		SPOT IN RIG & RIG UP
	8:00 10:00	2.00	PRDHEQ	16		P		BLEED OFF WELL, N/D WELLHEAD, N/U 5K BOP & HYDRILL, R/U FLOOR & TONGS
	10:00 11:00	1.00	PRDHEQ	18		P		R/U HOT OILER, FLUSH TBG W/ 60 BBLS 2% KCL, SECURE WELL, SDFD
11/26/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) OVER HEAD LOADS
	7:00 8:30	1.50	PRDHEQ	18		P		BLEED OFF WELL, P/U TBG HANGER, L/D HANGER & 1 JT 2 7/8", R/U SPOOLERS
	8:30 15:00	6.50	PRDHEQ	39		P		POOH W/ ESP, TBG, CABLE & 1/4" CAP STRING, 302 JTS 2 7/8", S/N, 1 JTS, DRAIN SUB, 1 JT, L/D 6' TBG SUB, 4-PUMPS, GAS SEPERATOR, 2-SEALS, MOTOR, SENTINEL & CHEMICAL MANDREL, MOTOR LEAD WAS BURNT, SECURE WELL, SDFD
11/27/2014	6:00 7:00	1.00	WLWORK	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) WIRELINE SAFETY
	7:00 9:45	2.75	WLWORK	27		P		RIH W/ 4.00 GR/JB TO 10290', POOH, RIH SET CBP @ 10210'
	9:45 11:00	1.25	WLWORK	06		P		FILLED CSG W/ 310 BBLS, FLUID LEVEL @ 8390'
	11:00 14:00	3.00	WLWORK	27		P		RIH PRESSURE UP ON CSG TO 1000 PSI, SET CBP @ 10200', BLEED OFF PRESSURE, POOH, RIH DUMP BAILED 10' CEM. ON TOP OF PLUG, POOH, RIH W/ 6.00 GR/JB TO 10010', POOH, R/D WIRELINE TRUCK
	14:00 15:30	1.50	PRDHEQ	16		P		R/D RIG FLOOR, N/D HYDRILL, 5K BOP, 3K SPOOL & 10K X-O FLANGE, N/U 10K FRAC VALVE, SECURE WELL, SDFW
11/28/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING
11/29/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING WEEKEND
11/30/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SDFH
12/1/2014	17:48 6:00	12.20	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING HOLIDAY
12/2/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG.
	7:30 10:30	3.00	WBP	06		P		CLEANEDOUT CELLAR OPENED 9 5/8 CSG.PRESSURED UP ON 7" CSG TO 6500 PSI. CBPs FAILED.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:30 17:30	7.00	WLWORK	26		N		WAIT ON WIRELINE. RU WIRELINE RIH W/ 2 3/4 WEIGHT BARS TAGGED CBP @ 12166'. RIH SET CBP @ 10185 FILLED CSG W/ 218 BBLS, FLUID LEVEL @ 5876. PRESURE TEST CBP @ 2000 PSI HELD. RIH PRESSURED UP ON CBP TO 2000 PSI. SET 2ND CBP @ 10175' RIH DUMPED BAILED 10' CEM ON CBP CEM TOP @ 10165'. RD WIRELINE.
12/3/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NU CSG VALVE. FILLED OUT JSA.
	7:30 8:30	1.00	WBP	16		P		CHANGED OUT 7" CSG VALVE.
	8:30 10:30	2.00	WBP	06		P		PRESURE TEST CSG. PRESSURED UP TO 8200 PSI. LOST 350 PSI IN 8 MINS. PRESSURED UP TO 8200 PSI. 2ND TIME LOST 400 PSI IN 15 MINS, PRESSURED UP TO 8200 PSI 3RD TIME SAME LOST CBP FAILED @ 10 MINS. WELL ON VACUUM.
	10:30 12:30	2.00	WOR	16		P		ND FRAC VALVE, NU 5K BOP. RU RIG FLOOR. NU WASHINGTON HEAD..
	12:30 13:30	1.00	WOR	42		P		WAIT ON MILL AND TBG.
	13:30 13:30	0.00	WOR	39		P		TALLIED AND RIH W/ 4 1/8 MILL, HYDROWASHER, 1-JT 2 3/8 N-80 EUE TBG, SCREEN, 102-JTS 2 3/8 N-80 TBG, X-OVER AND 140-JTS 2 7/8 L-80 EUE TBG EOT @ 7800 SECURED WELL SDFN.
12/4/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT JSA.
	7:30 10:30	3.00	WBP	39		P		CONTINUED TALLING AND RIH W/ 72-JTS 2 7/8 L-80 EUE TBG. EOT @ 10067'. RU POWER SWIVEL AND WASHINGTON HEAD. RAN PUMP LINES.
	10:30 13:30	3.00	WBP	40		P		PUMPED 60 BBLS WHILE WASHING FROM 10067 TO 10136' PUMPED 5 BBLS 15% HCL ACID. DISPLACED ACID TO EOT WITH 54 BBLS. CONTINUED WASHING FROM 10136' TO 10254' RD POWER SWIVEL. CONTINUED RIH TAGGED @ 10432' TOOK 30K OVER TO PULL OUT..
	13:30 17:00	3.50	WBP	39		P		TOOH W/ 224-JTS 2 7/8 L-80 EUE TBG, X-OVER 10-JTS 2 3/8 N-80 TBG IN DERRICK. LD 93-JTS 2 3/8 N-80 EUE TBG, HYDRO WASER AND 4 1/8 MILL
	17:00 22:30	5.50	WLWORK	26		P		RU WIRELINE RIH SET CBP @ 10170'. FILLED CSG W/ BBLS PRESURE TEST CSG @ 3000 PSI HELD. RIH PRESSURE UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10165. DUMP BAILED 10' CEM. RD WIRELINE.
12/5/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING UP FRAC VALVE. FILLED OUT JSA.
	7:30 9:30	2.00	WBP	16		P		ND 5K BOP. NU 10K FRAC VALVE.
	9:30 10:30	1.00	WBP	06		P		PRESSURE TEST CSG @ 8000PSI. HELD FOR 12 MINS, THEN CBP FAILED.
	10:30 12:30	2.00	WLWORK	42		P		WAIT FOR WIRELINE.
	12:30 23:00	10.50	WLWORK	26		P		RIH W/ 2 3/4 WEIGHT BAR TAGGED CBP @ 12160'. (ON TOP OF OTHER CBPS). RIH SET CBP @ 10215, DUMPED BAILED 10' SAND AND 10' CEM. FILLED CSG W/ 157 BBLS PRESURE TESTED @ 3000 PSI. RIH PRESSURED UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10185' DUMPED BAILED 10' SAND AND 10' CEM. RD WIRELINE SDFN.
12/6/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG. FILLED OUT JSA
	7:30 10:30	3.00	WBP	06		P		RAN PUMP LINES. PRESSURE TEST CSG @ 7500 PSI. LOST 2400 PSI IN 10 MIN. PUMPED IT UP AGAIN. SAME LOSS.
	10:30 13:30	3.00	WBP	16		P		NU AND PRESSURE TEST FRAC STACK 10000 PSI. GOOD TEST.
	13:30 15:00	1.50	WLWORK	18		P		RU WIRELINE RIH TAGGED CEM TOP @ 10160'. DUMPED BAILED 10' CEM. POOH.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00 17:00	2.00	WLWORK	21		P		PERFORATED STAGE #1 FROM 10154' TO 10073'. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 15 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 0 PSI. RD WIRELINE. SECURED WELL SDFN.
12/7/2014	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT. FILLED OUT JSA.
	6:30 10:00	3.50	MIRU	01		P		MIRU FRAC EQUIPMENT UNLOADED ACID INTANKS AND PRESSURE TESTED LINES.
	10:00 11:00	1.00	STG01	35		P		PRESSURE TEST LINES @ 8700. OPENED WELL W/ 200 PSI. FILLED CSG W/ 335BBLS. BREAK DOWN STAGE #1 PERFS @ 200 PSI, 13.5 BPM, 372 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 60 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 43 BPM, MAX RATE 47 BPM. AVG PRESS 4302 PSI, MAX PRESS 4510 PSI. I.S.I.P. 2904 PSI, F.G. .72, 5 MIN 733 PSI, 10 MIN 82 PSI. SHUT IN WELL. 1379 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	11:00 15:30	4.50	STG02	21		P		RU WIRELINE. RIH W/ 2 3/4 WEIGHT BARS TAGGED CEM TOP @10158'. RIH SET 7" CBP @ 100013 W/ 0 PSI. FILLED CSG W/ 194 BBLS PRESSURE TEST CBP @ 5500 PSI. PERFORATED STAGE #2 FROM 9997 ' TO 9719 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1100 PSI. FINAL PRESSURE 950 PSI. TURNED WELL OVER TO FRAC CREW.
	15:30 16:30	1.00	STG02	35		P		PRESSURE TEST LINES @ 6543. OPENED WELL W/ 650 PSI. BREAK DOWN STAGE #2 PERFS @ 2911 PSI, 5.4 BPM, 3 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 46 BPM, MAX RATE 51 BPM. AVG PRESS 3546 PSI, MAX PRESS 4924 PSI. I.S.I.P. 2260 PSI, F.G. .66, 5 MIN 2160 PSI, 10 MIN 2060 PSI. SHUT IN WELL. 1035 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	16:30 19:00	2.50	STG03	21		N		RIH SET 7" CBP @ 9683 W/1900 PSI. PERFORATED STAGE #3 FROM 9673 ' TO 9425 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 20 NET FT. 60 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1900 PSI. FINAL PRESSURE 1500 PSI. TURNED WELL OVER TO FRAC CREW/.
	19:00 20:00	1.00	STG03	35		P		PRESSURE TEST LINES @ 6773. OPENED WELL W/ 1327 PSI. BREAK DOWN STAGE #3 PERFS @ 2764 PSI, 11 BPM, 7 BBLS PUMPED ISIP 2296 PSI. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 42 BPM, MAX RATE 60 BPM. AVG PRESS 3555 PSI, MAX PRESS 5407 PSI. I.S.I.P. 2224 PSI, F.G. .66, 5 MIN 2060 PSI, 10 MIN 1952 PSI. SHUT IN WELL. 817 BBLS TO RECOVER. SECURED WELL
	20:00 22:00	2.00	RDMO	02		P		RD FRAC EQUIPMENT. OPENED WELL ON 12/64 CHOKE 1700 PSI @20:30
	22:00 6:00	8.00	FB	19		P		275 PSI, 22/64 CHOKE, 0 MCF, 0 BBLS OIL ,241 BBLS H2O.
	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
12/8/2014	6:30 6:00	23.50	FB	19		P		30 PSI, 64/64 CHOKE, 0 MCF, 0 BBLS OIL , 440 BBLS H2O.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/9/2014	6:00 7:30	1.50	WOR	28		P		HELD SAFETY MEETING ON NIPPLING DOWN FRAC VALVES. FILLED OUT JSA.
	7:30 10:00	2.50	WOR	16		P		ND FRAC VALVES, NU 5 K BOP..
	10:00 11:30	1.50	WOR	06		P		PUMPED 100 BBLS 10# BRINE. DOWN CSG MAX PRESSURE 1200 PSI . @ 3 BPM. ISIP 1000 PSI ,15 MIN 200 PSI. BLED DOWN WELL. CSG STILL FLOWING A LITTLE.
	11:30 15:30	4.00	WOR	39		P		RIH W/ 6" ROCK BIT, BIT SUB AND304- JTS 2 7/8 L-80 EUE TBG TAGGED CBP @ 9683' 20' OUT ON JT # 304. RU POWER SWIVEL
	15:30 18:00	2.50	WOR	10		P		CSG STILL FLOWING. ESTABLISHED REVERSE CIRCULATION, PUMPING 3.5 BPM RETURNING. 3.5 BPM. DRILLED OUT CBP CIRCULATE TBG CLEAN. RD POWER SWIVEL. TOO H W/ 6 JTS 2 7/8L-80 TBG STARED FLOWING SECURED WELL EOT@ 9514. SDFN.
12/10/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT JSA.
	7:30 9:00	1.50	WOR	06		P		RU PUMP LINES. 600 TSIP. 400 CSIP. BLED DOWN WELL PUMPED 30 BBLS BRINE DOWN TBG. CSG STILL FLOWING A LITTLE.
	9:00 11:00	2.00	WOR	39		P		RIH PUSHED CBP DOWN TO 2ND CBP @ 10013', TOO H W/126-JTS 2 7/8 L-80 EUE TBG, EOT @ 5984'
	11:00 12:30	1.50	WOR	06		P		CIRCULATE WELL W/ 250 BBLS BRINE.
	12:30 14:00	1.50	WOR	39		P		TOOH W/ 188 JTS 2 7/8 L-80 EUE TBG, BIT SUB AND BIT.
	14:00 16:00	2.00	WOR	16		P		ND BOP AND FRAC VALVE, NU BOP AND HYDRIL .
	16:00 17:00	1.00	WOR	39		P		RIH W/ SN AND 100 JTS 2 7/8 L-80 EUE TBG. EOT @ 3194' SRECUED WELL SDFN.
12/11/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.
	7:30 8:30	1.00	WOR	06		P		225 TSIP. 300 CSIP BLED DOWN WELL . CIRCULATE WELL W/ 130 BBLS BRINE.
	8:30 9:15	0.75	WOR	39		P		TOOH W/ 100-JTS 2 7/8 L-80 EUE TBG AND SN.
	9:15 16:00	6.75	WOR	39		P		RIH W/ 5 3/4 NO-GO, CHEMICAL MANDREL, CENTINEL, MOTOR, TANDEM SEALS, INTAKE SEPERATOR, 6 STAGE PUMP. 6' 2 7/8 TBG SUB, 1-JT 2 7/8 L-80 EUE TBG, DRAIN SUB,1-JT 2 7/8 L-80 EUE TBG, SN, 2-JTS 2 7/8 L-80 EUE TBG, COLLAR STOP AND 285 JTS 2 7/8 L-80 EUE TBG, BANDING CABLE AND 1/4" CAP TUBE 3 BANDS PER JT. LANDED HANGER IN WELLHEAD, EOP @ 9307'.
	16:00 17:30	1.50	WOR	16		P		ND BOP, NU WELLHEAD. SECURED WELL TURNED WELL OVER TO BAKER CHEMICAL TO PUMP CHEM DOWN CAP TUBE. SDFN.
12/12/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON RD RIG. FILLED OUT JSA.
	7:30 9:30	2.00	RDMO	02		P		PRESSURE TEST FLOWLINE TO 1000 PSI. PUMPED 30 BBLS DOWN FLOWLINE. RD RIG. TURNED ON ESP. TURNED WELL OVER TO FLOWBACK.

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013329230000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="DO Plugs"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/3/2015			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Drilled out CBP's 10017', 10185', 10215', 12166' & 12160'. Perfs Open:  
 10236'-10845', 10313'-10807', 10881'-11365', 11389'-11921',  
 11970'-12335', 12412'-12901'.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 17, 2015

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 6/16/2015	

## CENTRAL DIVISION

ALTAMONT FIELD  
KATHERINE 3-29B4  
KATHERINE 3-29B4  
RECOMPLETE LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	11/24/2014	End date	3/3/2015
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active datum	KB @6,215.0ft (above Mean Sea Level)		
Afe No./Description	164024/52795 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/25/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL, HSM WRITE & REVIEW JSA ( TOPIC ) N/U BOP & HYDRILL
	7:00 8:00	1.00	MIRU	01		P		SPOT IN RIG & RIG UP
	8:00 10:00	2.00	PRDHEQ	16		P		BLEED OFF WELL, N/D WELLHEAD, N/U 5K BOP & HYDRILL, R/U FLOOR & TONGS
	10:00 11:00	1.00	PRDHEQ	18		P		R/U HOT OILER, FLUSH TBG W/ 60 BBLS 2% KCL, SECURE WELL, SDFD
11/26/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) OVER HEAD LOADS
	7:00 8:30	1.50	PRDHEQ	18		P		BLEED OFF WELL, P/U TBG HANGER, L/D HANGER & 1 JT 2 7/8", R/U SPOOLERS
	8:30 15:00	6.50	PRDHEQ	39		P		POOH W/ ESP, TBG, CABLE & 1/4" CAP STRING, 302 JTS 2 7/8", S/N, 1 JTS, DRAIN SUB, 1 JT, L/D 6' TBG SUB, 4-PUMPS, GAS SEPERATOR, 2-SEALS, MOTOR, SENTINEL & CHEMICAL MANDREL, MOTOR LEAD WAS BURNT, SECURE WELL, SDFD
11/27/2014	6:00 7:00	1.00	WLWORK	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) WIRELINE SAFETY
	7:00 9:45	2.75	WLWORK	27		P		RIH W/ 4.00 GR/JB TO 10290', POOH, RIH SET CBP @ 10210'
	9:45 11:00	1.25	WLWORK	06		P		FILLED CSG W/ 310 BBLS, FLUID LEVEL @ 8390'
	11:00 14:00	3.00	WLWORK	27		P		RIH PRESSURE UP ON CSG TO 1000 PSI, SET CBP @ 10200', BLEED OFF PRESSURE, POOH, RIH DUMP BAILED 10' CEM. ON TOP OF PLUG, POOH, RIH W/ 6.00 GR/JB TO 10010', POOH, R/D WIRELINE TRUCK
	14:00 15:30	1.50	PRDHEQ	16		P		R/D RIG FLOOR, N/D HYDRILL, 5K BOP, 3K SPOOL & 10K X-O FLANGE, N/U 10K FRAC VALVE, SECURE WELL, SDFW
11/28/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING
11/29/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING WEEKEND
11/30/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SDFH
12/1/2014	17:48 6:00	12.20	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING HOLIDAY
12/2/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG.
	7:30 10:30	3.00	WBP	06		P		CLEANEDOUT CELLAR OPENED 9 5/8 CSG.PRESSURED UP ON 7" CSG TO 6500 PSI. CBPs FAILED.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:30 17:30	7.00	WLWORK	26		N		WAIT ON WIRELINE. RU WIRELINE RIH W/ 2 3/4 WEIGHT BARS TAGGED CBP @ 12166'. RIH SET CBP @ 10185 FILLED CSG W/ 218 BBLS, FLUID LEVEL @ 5876. PRESURE TEST CBP @ 2000 PSI HELD. RIH PRESSURED UP ON CBP TO 2000 PSI. SET 2ND CBP @ 10175' RIH DUMPED BAILED 10' CEM ON CBP CEM TOP @ 10165'. RD WIRELINE.
12/3/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NU CSG VALVE. FILLED OUT JSA.
	7:30 8:30	1.00	WBP	16		P		CHANGED OUT 7" CSG VALVE.
	8:30 10:30	2.00	WBP	06		P		PRESURE TEST CSG. PRESSURED UP TO 8200 PSI. LOST 350 PSI IN 8 MINS. PRESSURED UP TO 8200 PSI. 2ND TIME LOST 400 PSI IN 15 MINS, PRESSURED UP TO 8200 PSI 3RD TIME SAME LOST CBP FAILED @ 10 MINS. WELL ON VACUUM.
	10:30 12:30	2.00	WOR	16		P		ND FRAC VALVE, NU 5K BOP. RU RIG FLOOR. NU WASHINGTON HEAD..
	12:30 13:30	1.00	WOR	42		P		WAIT ON MILL AND TBG.
	13:30 13:30	0.00	WOR	39		P		TALLIED AND RIH W/ 4 1/8 MILL, HYDROWASHER, 1-JT 2 3/8 N-80 EUE TBG, SCREEN, 102-JTS 2 3/8 N-80 TBG, X-OVER AND 140-JTS 2 7/8 L-80 EUE TBG EOT @ 7800 SECURED WELL SDFN.
12/4/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT JSA.
	7:30 10:30	3.00	WBP	39		P		CONTINUED TALLING AND RIH W/ 72-JTS 2 7/8 L-80 EUE TBG. EOT @ 10067'. RU POWER SWIVEL AND WASHINGTON HEAD. RAN PUMP LINES.
	10:30 13:30	3.00	WBP	40		P		PUMPED 60 BBLS WHILE WASHING FROM 10067 TO 10136' PUMPED 5 BBLS 15% HCL ACID. DISPLACED ACID TO EOT WITH 54 BBLS. CONTINUED WASHING FROM 10136' TO 10254' RD POWER SWIVEL. CONTINUED RIH TAGGED @ 10432' TOOK 30K OVER TO PULL OUT..
	13:30 17:00	3.50	WBP	39		P		TOOH W/ 224-JTS 2 7/8 L-80 EUE TBG, X-OVER 10-JTS 2 3/8 N-80 TBG IN DERRICK. LD 93-JTS 2 3/8 N-80 EUE TBG, HYDRO WASER AND 4 1/8 MILL
	17:00 22:30	5.50	WLWORK	26		P		RU WIRELINE RIH SET CBP @ 10170'. FILLED CSG W/ BBLS PRESURE TEST CSG @ 3000 PSI HELD. RIH PRESSURE UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10165. DUMP BAILED 10' CEM. RD WIRELINE.
12/5/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING UP FRAC VALVE. FILLED OUT JSA.
	7:30 9:30	2.00	WBP	16		P		ND 5K BOP. NU 10K FRAC VALVE.
	9:30 10:30	1.00	WBP	06		P		PRESSURE TEST CSG @ 8000PSI. HELD FOR 12 MINS, THEN CBP FAILED.
	10:30 12:30	2.00	WLWORK	42		P		WAIT FOR WIRELINE.
	12:30 23:00	10.50	WLWORK	26		P		RIH W/ 2 3/4 WEIGHT BAR TAGGED CBP @ 12160'. (ON TOP OF OTHER CBPS). RIH SET CBP @ 10215, DUMPED BAILED 10' SAND AND 10' CEM. FILLED CSG W/ 157 BBLS PRESURE TESTED @ 3000 PSI. RIH PRESSURED UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10185' DUMPED BAILED 10' SAND AND 10' CEM. RD WIRELINE SDFN.
12/6/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG. FILLED OUT JSA
	7:30 10:30	3.00	WBP	06		P		RAN PUMP LINES. PRESSURE TEST CSG @ 7500 PSI. LOST 2400 PSI IN 10 MIN. PUMPED IT UP AGAIN. SAME LOSS.
	10:30 13:30	3.00	WBP	16		P		NU AND PRESSURE TEST FRAC STACK 10000 PSI. GOOD TEST.
	13:30 15:00	1.50	WLWORK	18		P		RU WIRELINE RIH TAGGED CEM TOP @ 10160'. DUMPED BAILED 10' CEM. POOH.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00 17:00	2.00	WLWORK	21		P		PERFORATED STAGE #1 FROM 10154' TO 10073'. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 15 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 0 PSI. RD WIRELINE. SECURED WELL SDFN.
12/7/2014	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT. FILLED OUT JSA.
	6:30 10:00	3.50	MIRU	01		P		MIRU FRAC EQUIPMENT UNLOADED ACID INTANKS AND PRESSURE TESTED LINES.
	10:00 11:00	1.00	STG01	35		P		PRESSURE TEST LINES @ 8700. OPENED WELL W/ 200 PSI. FILLED CSG W/ 335BBLS. BREAK DOWN STAGE #1 PERFS @ 200 PSI, 13.5 BPM, 372 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 60 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 43 BPM, MAX RATE 47 BPM. AVG PRESS 4302 PSI, MAX PRESS 4510 PSI. I.S.I.P. 2904 PSI, F.G. .72, 5 MIN 733 PSI, 10 MIN 82 PSI. SHUT IN WELL. 1379 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	11:00 15:30	4.50	STG02	21		P		RU WIRELINE. RIH W/ 2 3/4 WEIGHT BARS TAGGED CEM TOP @10158'. RIH SET 7" CBP @ 100013 W/ 0 PSI. FILLED CSG W/ 194 BBLS PRESSURE TEST CBP @ 5500 PSI. PERFORATED STAGE #2 FROM 9997 ' TO 9719 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1100 PSI. FINAL PRESSURE 950 PSI. TURNED WELL OVER TO FRAC CREW.
	15:30 16:30	1.00	STG02	35		P		PRESSURE TEST LINES @ 6543. OPENED WELL W/ 650 PSI. BREAK DOWN STAGE #2 PERFS @ 2911 PSI, 5.4 BPM, 3 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 46 BPM, MAX RATE 51 BPM. AVG PRESS 3546 PSI, MAX PRESS 4924 PSI. I.S.I.P. 2260 PSI, F.G. .66, 5 MIN 2160 PSI, 10 MIN 2060 PSI. SHUT IN WELL. 1035 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	16:30 19:00	2.50	STG03	21		N		RIH SET 7" CBP @ 9683 W/1900 PSI. PERFORATED STAGE #3 FROM 9673 ' TO 9425 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 20 NET FT. 60 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1900 PSI. FINAL PRESSURE 1500 PSI. TURNED WELL OVER TO FRAC CREW/.
	19:00 20:00	1.00	STG03	35		P		PRESSURE TEST LINES @ 6773. OPENED WELL W/ 1327 PSI. BREAK DOWN STAGE #3 PERFS @ 2764 PSI, 11 BPM, 7 BBLS PUMPED ISIP 2296 PSI. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPED 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 42 BPM, MAX RATE 60 BPM. AVG PRESS 3555 PSI, MAX PRESS 5407 PSI. I.S.I.P. 2224 PSI, F.G. .66, 5 MIN 2060 PSI, 10 MIN 1952 PSI. SHUT IN WELL. 817 BBLS TO RECOVER. SECURED WELL
	20:00 22:00	2.00	RDMO	02		P		RD FRAC EQUIPMENT. OPENED WELL ON 12/64 CHOKE 1700 PSI @20:30
	22:00 6:00	8.00	FB	19		P		275 PSI, 22/64 CHOKE, 0 MCF, 0 BBLS OIL ,241 BBLS H2O.
	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
12/8/2014	6:30 6:00	23.50	FB	19		P		30 PSI, 64/64 CHOKE, 0 MCF, 0 BBLS OIL , 440 BBLS H2O.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/9/2014	6:00 7:30	1.50	WOR	28		P		HELD SAFETY MEETING ON NIPPLING DOWN FRAC VALVES. FILLED OUT JSA.
	7:30 10:00	2.50	WOR	16		P		ND FRAC VALVES, NU 5 K BOP..
	10:00 11:30	1.50	WOR	06		P		PUMPED 100 BBLS 10# BRINE. DOWN CSG MAX PRESSURE 1200 PSI . @ 3 BPM. ISIP 1000 PSI ,15 MIN 200 PSI. BLED DOWN WELL. CSG STILL FLOWING A LITTLE.
	11:30 15:30	4.00	WOR	39		P		RIH W/ 6" ROCK BIT, BIT SUB AND 304- JTS 2 7/8 L-80 EUE TBG TAGGED CBP @ 9683' 20' OUT ON JT # 304. RU POWER SWIVEL
	15:30 18:00	2.50	WOR	10		P		CSG STILL FLOWING. ESTABLISHED REVERSE CIRCULATION, PUMPING 3.5 BPM RETURNING. 3.5 BPM. DRILLED OUT CBP CIRCULATE TBG CLEAN. RD POWER SWIVEL. TOO H W/ 6 JTS 2 7/8 L-80 TBG STARED FLOWING SECURED WELL EOT@ 9514. SDFN.
12/10/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT JSA.
	7:30 9:00	1.50	WOR	06		P		RU PUMP LINES. 600 TSIP. 400 CSIP. BLED DOWN WELL PUMPED 30 BBLS BRINE DOWN TBG. CSG STILL FLOWING A LITTLE.
	9:00 11:00	2.00	WOR	39		P		RIH PUSHED CBP DOWN TO 2ND CBP @ 10013', TOO H W/126-JTS 2 7/8 L-80 EUE TBG, EOT @ 5984'
	11:00 12:30	1.50	WOR	06		P		CIRCULATE WELL W/ 250 BBLS BRINE.
	12:30 14:00	1.50	WOR	39		P		TOOH W/ 188 JTS 2 7/8 L-80 EUE TBG, BIT SUB AND BIT.
	14:00 16:00	2.00	WOR	16		P		ND BOP AND FRAC VALVE, NU BOP AND HYDRIL .
	16:00 17:00	1.00	WOR	39		P		RIH W/ SN AND 100 JTS 2 7/8 L-80 EUE TBG. EOT @ 3194' SRECUED WELL SDFN.
12/11/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.
	7:30 8:30	1.00	WOR	06		P		225 TSIP. 300 CSIP BLED DOWN WELL . CIRCULATE WELL W/ 130 BBLS BRINE.
	8:30 9:15	0.75	WOR	39		P		TOOH W/ 100-JTS 2 7/8 L-80 EUE TBG AND SN.
	9:15 16:00	6.75	WOR	39		P		RIH W/ 5 3/4 NO-GO, CHEMICAL MANDREL, CENTINEL, MOTOR, TANDEM SEALS, INTAKE SEPERATOR, 6 STAGE PUMP. 6' 2 7/8 TBG SUB, 1-JT 2 7/8 L-80 EUE TBG, DRAIN SUB,1-JT 2 7/8 L-80 EUE TBG, SN, 2-JTS 2 7/8 L-80 EUE TBG, COLLAR STOP AND 285 JTS 2 7/8 L-80 EUE TBG, BANDING CABLE AND 1/4" CAP TUBE 3 BANDS PER JT. LANDED HANGER IN WELLHEAD, EOP @ 9307'.
	16:00 17:30	1.50	WOR	16		P		ND BOP, NU WELLHEAD. SECURED WELL TURNED WELL OVER TO BAKER CHEMICAL TO PUMP CHEM DOWN CAP TUBE. SDFN.
12/12/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON RD RIG. FILLED OUT JSA.
	7:30 9:30	2.00	RDMO	02		P		PRESSURE TEST FLOWLINE TO 1000 PSI. PUMPED 30 BBLS DOWN FLOWLINE. RD RIG. TURNED ON ESP. TURNED WELL OVER TO FLOWBACK.
2/25/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON PRE TRIP SAFETY INSP, WRITE & REVIEW JSA'S
	7:30 9:30	2.00	WOR	18		P		CHECK 3-6C4 PUMPING GOOD, RIG DWN RIG, ROAD RIG TO 3-29B4 SPOT IN & RU, WHILE FLUSHING TBG W/ HOT OILER @ 3500 PSI W/ 60 BBLS OF 2% KCL
	9:30 11:00	1.50	WOR	16		P		NDWH, NUBOP & HYDRILL, RU WORK FLOOR & TBG TONGS

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	11:00 18:30	7.50	WOR	39		P		LD TBG HANGER & 1 JT 2-7/8" TBG, RU SPOOLERS, TOO H W/ 285 JTS 2-7/8" TBG, 2-7/8" P.S.N., 1 JT 2-7/8" TBG, 2-7/8" DRAIN SUB, 1 JT 2-7/8" TBG & LAY DWN 6' X 2-7/8" TBG SUB, 6 STAGE PUMP FLEX 3.2, INTAKE, GAS SEPERATOR, 2 SEALS, MOTOR, CENTINEL, 2-3/8" EUE CHEM MANDREL & 5-3/4" NO-GO, TOP 2 PUMPS WERE SEIZED UP, HAD SCALE ON THE INTAKE OF PUMPS, CLOSE & LOCK BLIND RAMS, CLOSE CSG VALVES & INSTALL & CLOSE NIGHT CAP, SDFN
2/26/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON TIH W/ TBG, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	39		P		0 PSI ON WELL, MU & RIH W/ 6" ROCK BIT, 2-7/8" EUE X 3-1/2" REG BIT SUB, TALLY IN HOLE OUT OF DERRICK W/ 286 JTS 2-7/8" EUE L-80 TBG
	10:30 11:30	1.00	WOR	24		P		TALLY & PICK UP 27 JTS NEW 2-7/8" EUE L-80 TBG, TAG 7" CBP @ 10013', ON JT # 313, LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, MU 1 JT W/ SWIVEL
	11:30 15:00	3.50	WOR	10		P		RU PUMP LINES, CATCH REVERSE CIRCULATION W/ 230 BBLS 2% KCL, DRILL OUT 7" CBP & PUSH TO LINER TOP & FINISH DRILL UP CBP, CIRC TBG CLEAN, LD 1 JT W/ SWIVEL, RIG DWN SWIVEL
	15:00 17:30	2.50	WOR	39		P		LD 10 JTS 2-7/8" TBG, TOO H STANDING BACK IN DERRICK W/ 220 JTS 2-7/8" EUE L-80 TBG, SHUT & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE CSG VALVES & INSTALL NIGHT CAPS, SDFN, END OF TBG @ 2633'
2/27/2015								USED 1050 BBLS 2% KCL TODAY
	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL, HOLD SAFETY MTG ON CLEAN WORK AREA, WRITE & REVIEW JSA'S
	7:30 8:30	1.00	WOR	39		P		35 PSI ON WELL WELL BLOW DWN WELL, TOO H W/ 83 JTS 2-7/8" EUE L-80 TBG, BIT SUB & 6" ROCK BIT
	8:30 10:30	2.00	WOR	24		P		RIH W/ 4-1/8" ROCK BIT, 2-3/8" EUE X 2-3/8" REG BIT SUB, TALLY & PU 95 JTS 2-3/8" EUE WORK STRING TBG
2/28/2015	10:30 14:00	3.50	WOR	39		P		TIH OUT OF DERRICK W/ 222 JTS 2-7/8" EUE L-80 TBG, TAG REST OF 7" CBP PLUG @ 10017', LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, PU 1 JT 2-7/8" TBG W/ SWIVEL, SI KELLY COCK VALVE, CLOSE & LOCK PIPE RAMS, CLOSE CSG VALVE & NIGHT CAP, SDFN
	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON USING THE POWER SWIVEL, WRITE & REVIEW JSA'S
	7:30 10:00	2.50	WOR	06		P		BREAK CIRC W/ 350 BBLS 2% KCL & FINISH DRILLING UP 7" CBP @ L.T.
	10:00 13:00	3.00	WOR	10		P		SWIVEL DWN 3 JTS 2-7/8" TBG & TAG CMT TOP @ 10175', BEGIN REVERSE CIRCULATING, DRILL OUT CMT & CBP'S @ 10185' & 10215', CIRC TBG CLEAN & RIG DWN POWER SWIVEL
	13:00 17:30	4.50	WOR	10		P		RIH W/ 66 JTS 2-7/8" EUE L-80 TBG & TAG @ 12281', RU POWER SWIVEL, BEGIN REVERSE CIRCULATING & DRILL OUT 6-5" CBP'S THAT HAD FAILED ON PREVIOUS JOB, RIG DWN SWIVEL & TIH W/ 19 JTS 2-7/8" EUE L-80 TBG, PUSH REMAINS OF CBP TO T.D. @ 12912'
3/1/2015	17:30 19:00	1.50	WOR	39		P		LAY DWN 22 JTS 2-7/8" TBG & TOO H W/ 70 JTS 2-7/8" EUE L-80 TBG & STAND BACK IN DERRICK, EOT @ 9947', CLOSE & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE & NIGHT CAP SCG VALVE, SDFN
								USED 2380 BBLS 2% KCL
3/1/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON TOO H W/ TBG, WRITE & REVIEW JSA'S

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	7:30 10:00	2.50	WOR	39		P		0 PSI ON WELL, OPEN WELL & TOO H W/ 217 JTS 2-7/8" TBG, TBG WAS PLUGGED PULLED IT WET
	10:00 12:00	2.00	WOR	24		P		LD 2-7/8" X 2-3/8" EUE X OVER, 95 JTS 2-3/8" W.S. TBG, BIT SUB & 4-1/8" BIT, CLOSE & LOCK PIPE RAMS, CLOSE CSG VALVES & INSTALL NIGHT CAPS, SDFW
3/2/2015	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
3/3/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HOLD SAFETY MTG ON RU SPOOLERS WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	24		P		50 PSI ON SICP, MAKE MTR LEAD SPLICE, PU & SERVICE ESP EQUIP, RU SPOOLERS, HOOK UP 1/4" CAP TUBE & MTR LEAD
	10:30 10:30	0.00	WOR	39		P		RIH W/ 5-3/4" NO-GO, 2-3/8" X 2-7/8" X OVER, 2-3/8" CHEM MANDREL, CENTINEL SENSOR, MOTOR, DUAL SEALS, GAS SEPERATOR & INTAKE, 6 PUMPS, 6" X 2-7/8" N-80 TBG SUB, 1 JT 2-7/8" TBG, 2-7/8" DRAIN SUB, 2 JTS 2-7/8" L-80 TBG, 2-7/8" +45 P.S.N., 2 JTS 2-7/8" L-80 TBG, COLLAR STOP & 240 JTS 2-7/8" L-80 TBG, BANDING ESP CABLE & 1/4" CAP TUBE 3 BANDS PER JT, CLOSE HYDRILL ON TBG, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE CSG VALVE & INSTALL NIGHT CAP, SDFN
3/4/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL TO LOC, HOLD SAFETY MTG ON SLICK WORK SURFACES, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	39		P		50 PSI ON CSG & 75 PSI SITP, BLOW DWN WELL, CONT TIH W/ 41 JTS 2-7/8" EUE L-80 TBG, 10', 8' X 2-7/8" N-80 TBG SUBS & 1 JT 2-7/8" EUE L-80 TBG, SPLICE ON PENETRATOR, LAND TBG ON TBG HANGER, EOP @ 9310.96'
	10:30 11:30	1.00	WOR	16		P		RD WORK FLOOR, ND HYDRILL & BOP, NUWH, HOOK UP FLOW LINES
	11:30 14:30	3.00	WOR	18		P		START ESP, PUMPED UP IN 1 HR, RIG DWN RIG, TURN WELL OVER TO PRODUCTION, RIG DWN RIG, PICK UP LOCATION, ROAD RIG TO THE 2-21C4 & SPOT ON SIDE OF LOC, SDFN

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013329230000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 30, 2015

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 6/16/2015

## CENTRAL DIVISION

ALTAMONT FIELD  
KATHERINE 3-29B4  
KATHERINE 3-29B4  
RECOMPLETE LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	11/24/2014	End date	3/3/2015
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active datum	KB @6,215.0ft (above Mean Sea Level)		
Afe No./Description	164024/52795 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/25/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL, HSM WRITE & REVIEW JSA ( TOPIC ) N/U BOP & HYDRILL
	7:00 8:00	1.00	MIRU	01		P		SPOT IN RIG & RIG UP
	8:00 10:00	2.00	PRDHEQ	16		P		BLEED OFF WELL, N/D WELLHEAD, N/U 5K BOP & HYDRILL, R/U FLOOR & TONGS
	10:00 11:00	1.00	PRDHEQ	18		P		R/U HOT OILER, FLUSH TBG W/ 60 BBLS 2% KCL, SECURE WELL, SDFD
11/26/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) OVER HEAD LOADS
	7:00 8:30	1.50	PRDHEQ	18		P		BLEED OFF WELL, P/U TBG HANGER, L/D HANGER & 1 JT 2 7/8", R/U SPOOLERS
	8:30 15:00	6.50	PRDHEQ	39		P		POOH W/ ESP, TBG, CABLE & 1/4" CAP STRING, 302 JTS 2 7/8", S/N, 1 JTS, DRAIN SUB, 1 JT, L/D 6' TBG SUB, 4-PUMPS, GAS SEPERATOR, 2-SEALS, MOTOR, SENTINEL & CHEMICAL MANDREL, MOTOR LEAD WAS BURNT, SECURE WELL, SDFD
11/27/2014	6:00 7:00	1.00	WLWORK	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) WIRELINE SAFETY
	7:00 9:45	2.75	WLWORK	27		P		RIH W/ 4.00 GR/JB TO 10290', POOH, RIH SET CBP @ 10210'
	9:45 11:00	1.25	WLWORK	06		P		FILLED CSG W/ 310 BBLS, FLUID LEVEL @ 8390'
	11:00 14:00	3.00	WLWORK	27		P		RIH PRESSURE UP ON CSG TO 1000 PSI, SET CBP @ 10200', BLEED OFF PRESSURE, POOH, RIH DUMP BAILED 10' CEM. ON TOP OF PLUG, POOH, RIH W/ 6.00 GR/JB TO 10010', POOH, R/D WIRELINE TRUCK
	14:00 15:30	1.50	PRDHEQ	16		P		R/D RIG FLOOR, N/D HYDRILL, 5K BOP, 3K SPOOL & 10K X-O FLANGE, N/U 10K FRAC VALVE, SECURE WELL, SDFW
11/28/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING
11/29/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING WEEKEND
11/30/2014	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SDFH
12/1/2014	17:48 6:00	12.20	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR THANKSGIVING HOLIDAY
12/2/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG.
	7:30 10:30	3.00	WBP	06		P		CLEANEDOUT CELLAR OPENED 9 5/8 CSG.PRESSURED UP ON 7" CSG TO 6500 PSI. CBPs FAILED.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:30 17:30	7.00	WLWORK	26		N		WAIT ON WIRELINE. RU WIRELINE RIH W/ 2 3/4 WEIGHT BARS TAGGED CBP @ 12166'. RIH SET CBP @ 10185 FILLED CSG W/ 218 BBLS, FLUID LEVEL @ 5876. PRESURE TEST CBP @ 2000 PSI HELD. RIH PRESSURED UP ON CBP TO 2000 PSI. SET 2ND CBP @ 10175' RIH DUMPED BAILED 10' CEM ON CBP CEM TOP @ 10165'. RD WIRELINE.
12/3/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NU CSG VALVE. FILLED OUT JSA.
	7:30 8:30	1.00	WBP	16		P		CHANGED OUT 7" CSG VALVE.
	8:30 10:30	2.00	WBP	06		P		PRESURE TEST CSG. PRESSURED UP TO 8200 PSI. LOST 350 PSI IN 8 MINS. PRESSURED UP TO 8200 PSI. 2ND TIME LOST 400 PSI IN 15 MINS, PRESSURED UP TO 8200 PSI 3RD TIME SAME LOST CBP FAILED @ 10 MINS. WELL ON VACUUM.
	10:30 12:30	2.00	WOR	16		P		ND FRAC VALVE, NU 5K BOP. RU RIG FLOOR. NU WASHINGTON HEAD..
	12:30 13:30	1.00	WOR	42		P		WAIT ON MILL AND TBG.
	13:30 13:30	0.00	WOR	39		P		TALLIED AND RIH W/ 4 1/8 MILL, HYDROWASHER, 1-JT 2 3/8 N-80 EUE TBG, SCREEN, 102-JTS 2 3/8 N-80 TBG, X-OVER AND 140-JTS 2 7/8 L-80 EUE TBG EOT @ 7800 SECURED WELL SDFN.
12/4/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT JSA.
	7:30 10:30	3.00	WBP	39		P		CONTINUED TALLING AND RIH W/ 72-JTS 2 7/8 L-80 EUE TBG. EOT @ 10067'. RU POWER SWIVEL AND WASHINGTON HEAD. RAN PUMP LINES.
	10:30 13:30	3.00	WBP	40		P		PUMPED 60 BBLS WHILE WASHING FROM 10067 TO 10136' PUMPED 5 BBLS 15% HCL ACID. DISPLACED ACID TO EOT WITH 54 BBLS. CONTINUED WASHING FROM 10136' TO 10254' RD POWER SWIVEL. CONTINUED RIH TAGGED @ 10432' TOOK 30K OVER TO PULL OUT..
	13:30 17:00	3.50	WBP	39		P		TOOH W/ 224-JTS 2 7/8 L-80 EUE TBG, X-OVER 10-JTS 2 3/8 N-80 TBG IN DERRICK. LD 93-JTS 2 3/8 N-80 EUE TBG, HYDRO WASER AND 4 1/8 MILL
	17:00 22:30	5.50	WLWORK	26		P		RU WIRELINE RIH SET CBP @ 10170'. FILLED CSG W/ BBLS PRESURE TEST CSG @ 3000 PSI HELD. RIH PRESSURE UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10165. DUMP BAILED 10' CEM. RD WIRELINE.
12/5/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING UP FRAC VALVE. FILLED OUT JSA.
	7:30 9:30	2.00	WBP	16		P		ND 5K BOP. NU 10K FRAC VALVE.
	9:30 10:30	1.00	WBP	06		P		PRESSURE TEST CSG @ 8000PSI. HELD FOR 12 MINS, THEN CBP FAILED.
	10:30 12:30	2.00	WLWORK	42		P		WAIT FOR WIRELINE.
	12:30 23:00	10.50	WLWORK	26		P		RIH W/ 2 3/4 WEIGHT BAR TAGGED CBP @ 12160'. (ON TOP OF OTHER CBPS). RIH SET CBP @ 10215, DUMPED BAILED 10' SAND AND 10' CEM. FILLED CSG W/ 157 BBLS PRESURE TESTED @ 3000 PSI. RIH PRESSURED UP ON CSG TO 3000 PSI. SET 2ND CBP @ 10185' DUMPED BAILED 10' SAND AND 10' CEM. RD WIRELINE SDFN.
12/6/2014	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG. FILLED OUT JSA
	7:30 10:30	3.00	WBP	06		P		RAN PUMP LINES. PRESSURE TEST CSG @ 7500 PSI. LOST 2400 PSI IN 10 MIN. PUMPED IT UP AGAIN. SAME LOSS.
	10:30 13:30	3.00	WBP	16		P		NU AND PRESSURE TEST FRAC STACK 10000 PSI. GOOD TEST.
	13:30 15:00	1.50	WLWORK	18		P		RU WIRELINE RIH TAGGED CEM TOP @ 10160'. DUMPED BAILED 10' CEM. POOH.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00 17:00	2.00	WLWORK	21		P		PERFORATED STAGE #1 FROM 10154' TO 10073'. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 15 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 0 PSI. RD WIRELINE. SECURED WELL SDFN.
12/7/2014	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT. FILLED OUT JSA.
	6:30 10:00	3.50	MIRU	01		P		MIRU FRAC EQUIPMENT UNLOADED ACID INTANKS AND PRESSURE TESTED LINES.
	10:00 11:00	1.00	STG01	35		P		PRESSURE TEST LINES @ 8700. OPENED WELL W/ 200 PSI. FILLED CSG W/ 335BBLS. BREAK DOWN STAGE #1 PERFS @ 200 PSI, 13.5 BPM, 372 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPE 60 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 43 BPM, MAX RATE 47 BPM. AVG PRESS 4302 PSI, MAX PRESS 4510 PSI. I.S.I.P. 2904 PSI, F.G. .72, 5 MIN 733 PSI, 10 MIN 82 PSI. SHUT IN WELL. 1379 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	11:00 15:30	4.50	STG02	21		P		RU WIRELINE. RIH W/ 2 3/4 WEIGHT BARS TAGGED CEM TOP @10158'. RIH SET 7" CBP @ 100013 W/ 0 PSI. FILLED CSG W/ 194 BBLS PRESSURE TEST CBP @ 5500 PSI. PERFORATED STAGE #2 FROM 9997 ' TO 9719 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 23 NET FT. 69 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1100 PSI. FINAL PRESSURE 950 PSI. TURNED WELL OVER TO FRAC CREW.
	15:30 16:30	1.00	STG02	35		P		PRESSURE TEST LINES @ 6543. OPENED WELL W/ 650 PSI. BREAK DOWN STAGE #2 PERFS @ 2911 PSI, 5.4 BPM, 3 BBLS PUMPED. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPE 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 46 BPM, MAX RATE 51 BPM. AVG PRESS 3546 PSI, MAX PRESS 4924 PSI. I.S.I.P. 2260 PSI, F.G. .66, 5 MIN 2160 PSI, 10 MIN 2060 PSI. SHUT IN WELL. 1035 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	16:30 19:00	2.50	STG03	21		N		RIH SET 7" CBP @ 9683 W/1900 PSI. PERFORATED STAGE #3 FROM 9673 ' TO 9425 '. ALL PERFS CORRELATED TO WEATHERFORD WIRELINE CBL, GAMMA RAY, CCL LOG RUN #1 DATED 4-AUG-2006. 20 NET FT. 60 SHOTS. 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1900 PSI. FINAL PRESSURE 1500 PSI. TURNED WELL OVER TO FRAC CREW/.
	19:00 20:00	1.00	STG03	35		P		PRESSURE TEST LINES @ 6773. OPENED WELL W/ 1327 PSI. BREAK DOWN STAGE #3 PERFS @ 2764 PSI, 11 BPM, 7 BBLS PUMPED ISIP 2296 PSI. TREATED PERFS W/ 10,000 GALS 15% HCL ACID. DROPE 40 BIO BALLS 2% KCL PAD, TREATED PERFS W/ 10,000 GALS 15% HCL ACID AVG RATE 42 BPM, MAX RATE 60 BPM. AVG PRESS 3555 PSI, MAX PRESS 5407 PSI. I.S.I.P. 2224 PSI, F.G. .66, 5 MIN 2060 PSI, 10 MIN 1952 PSI. SHUT IN WELL. 817 BBLS TO RECOVER. SECURED WELL
	20:00 22:00	2.00	RDMO	02		P		RD FRAC EQUIPMENT. OPENED WELL ON 12/64 CHOKE 1700 PSI @20:30
	22:00 6:00	8.00	FB	19		P		275 PSI, 22/64 CHOKE, 0 MCF, 0 BBLS OIL ,241 BBLS H2O.
	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
12/8/2014	6:30 6:00	23.50	FB	19		P		30 PSI, 64/64 CHOKE, 0 MCF, 0 BBLS OIL , 440 BBLS H2O.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/9/2014	6:00 7:30	1.50	WOR	28		P		HELD SAFETY MEETING ON NIPPLING DOWN FRAC VALVES. FILLED OUT JSA.
	7:30 10:00	2.50	WOR	16		P		ND FRAC VALVES, NU 5 K BOP..
	10:00 11:30	1.50	WOR	06		P		PUMPED 100 BBLS 10# BRINE. DOWN CSG MAX PRESSURE 1200 PSI . @ 3 BPM. ISIP 1000 PSI ,15 MIN 200 PSI. BLED DOWN WELL. CSG STILL FLOWING A LITTLE.
	11:30 15:30	4.00	WOR	39		P		RIH W/ 6" ROCK BIT, BIT SUB AND 304- JTS 2 7/8 L-80 EUE TBG TAGGED CBP @ 9683' 20' OUT ON JT # 304. RU POWER SWIVEL
	15:30 18:00	2.50	WOR	10		P		CSG STILL FLOWING. ESTABLISHED REVERSE CIRCULATION, PUMPING 3.5 BPM RETURNING. 3.5 BPM. DRILLED OUT CBP CIRCULATE TBG CLEAN. RD POWER SWIVEL. TOO H W/ 6 JTS 2 7/8 L-80 TBG STARED FLOWING SECURED WELL EOT @ 9514. SDFN.
12/10/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT JSA.
	7:30 9:00	1.50	WOR	06		P		RU PUMP LINES. 600 TSIP. 400 CSIP. BLED DOWN WELL PUMPED 30 BBLS BRINE DOWN TBG. CSG STILL FLOWING A LITTLE.
	9:00 11:00	2.00	WOR	39		P		RIH PUSHED CBP DOWN TO 2ND CBP @ 10013', TOO H W/126-JTS 2 7/8 L-80 EUE TBG, EOT @ 5984'
	11:00 12:30	1.50	WOR	06		P		CIRCULATE WELL W/ 250 BBLS BRINE.
	12:30 14:00	1.50	WOR	39		P		TOOH W/ 188 JTS 2 7/8 L-80 EUE TBG, BIT SUB AND BIT.
	14:00 16:00	2.00	WOR	16		P		ND BOP AND FRAC VALVE, NU BOP AND HYDRIL .
	16:00 17:00	1.00	WOR	39		P		RIH W/ SN AND 100 JTS 2 7/8 L-80 EUE TBG. EOT @ 3194' SRECUED WELL SDFN.
12/11/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.
	7:30 8:30	1.00	WOR	06		P		225 TSIP. 300 CSIP BLED DOWN WELL . CIRCULATE WELL W/ 130 BBLS BRINE.
	8:30 9:15	0.75	WOR	39		P		TOOH W/ 100-JTS 2 7/8 L-80 EUE TBG AND SN.
	9:15 16:00	6.75	WOR	39		P		RIH W/ 5 3/4 NO-GO, CHEMICAL MANDREL, CENTINEL, MOTOR, TANDEM SEALS, INTAKE SEPERATOR, 6 STAGE PUMP. 6' 2 7/8 TBG SUB, 1-JT 2 7/8 L-80 EUE TBG, DRAIN SUB,1-JT 2 7/8 L-80 EUE TBG, SN, 2-JTS 2 7/8 L-80 EUE TBG, COLLAR STOP AND 285 JTS 2 7/8 L-80 EUE TBG, BANDING CABLE AND 1/4" CAP TUBE 3 BANDS PER JT. LANDED HANGER IN WELLHEAD, EOP @ 9307'.
	16:00 17:30	1.50	WOR	16		P		ND BOP, NU WELLHEAD. SECURED WELL TURNED WELL OVER TO BAKER CHEMICAL TO PUMP CHEM DOWN CAP TUBE. SDFN.
12/12/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON RD RIG. FILLED OUT JSA.
	7:30 9:30	2.00	RDMO	02		P		PRESSURE TEST FLOWLINE TO 1000 PSI. PUMPED 30 BBLS DOWN FLOWLINE. RD RIG. TURNED ON ESP. TURNED WELL OVER TO FLOWBACK.
2/25/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON PRE TRIP SAFETY INSP, WRITE & REVIEW JSA'S
	7:30 9:30	2.00	WOR	18		P		CHECK 3-6C4 PUMPING GOOD, RIG DWN RIG, ROAD RIG TO 3-29B4 SPOT IN & RU, WHILE FLUSHING TBG W/ HOT OILER @ 3500 PSI W/ 60 BBLS OF 2% KCL
	9:30 11:00	1.50	WOR	16		P		NDWH, NUBOP & HYDRILL, RU WORK FLOOR & TBG TONGS

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	11:00 18:30	7.50	WOR	39		P		LD TBG HANGER & 1 JT 2-7/8" TBG, RU SPOOLERS, TOO H W/ 285 JTS 2-7/8" TBG, 2-7/8" P.S.N., 1 JT 2-7/8" TBG, 2-7/8" DRAIN SUB, 1 JT 2-7/8" TBG & LAY DWN 6' X 2-7/8" TBG SUB, 6 STAGE PUMP FLEX 3.2, INTAKE, GAS SEPERATOR, 2 SEALS, MOTOR, CENTINEL, 2-3/8" EUE CHEM MANDREL & 5-3/4" NO-GO, TOP 2 PUMPS WERE SEIZED UP, HAD SCALE ON THE INTAKE OF PUMPS, CLOSE & LOCK BLIND RAMS, CLOSE CSG VALVES & INSTALL & CLOSE NIGHT CAP, SDFN
2/26/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON TIH W/ TBG, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	39		P		0 PSI ON WELL, MU & RIH W/ 6" ROCK BIT, 2-7/8" EUE X 3-1/2" REG BIT SUB, TALLY IN HOLE OUT OF DERRICK W/ 286 JTS 2-7/8" EUE L-80 TBG
	10:30 11:30	1.00	WOR	24		P		TALLY & PICK UP 27 JTS NEW 2-7/8" EUE L-80 TBG, TAG 7" CBP @ 10013', ON JT # 313, LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, MU 1 JT W/ SWIVEL
	11:30 15:00	3.50	WOR	10		P		RU PUMP LINES, CATCH REVERSE CIRCULATION W/ 230 BBLS 2% KCL, DRILL OUT 7" CBP & PUSH TO LINER TOP & FINISH DRILL UP CBP, CIRC TBG CLEAN, LD 1 JT W/ SWIVEL, RIG DWN SWIVEL
	15:00 17:30	2.50	WOR	39		P		LD 10 JTS 2-7/8" TBG, TOO H STANDING BACK IN DERRICK W/ 220 JTS 2-7/8" EUE L-80 TBG, SHUT & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE CSG VALVES & INSTALL NIGHT CAPS, SDFN, END OF TBG @ 2633'
2/27/2015	6:00 7:30	1.50	WOR	28		P		USED 1050 BBLS 2% KCL TODAY
	7:30 8:30	1.00	WOR	39		P		CREW TRAVEL, HOLD SAFETY MTG ON CLEAN WORK AREA, WRITE & REVIEW JSA'S
	8:30 10:30	2.00	WOR	24		P		35 PSI ON WELL WELL BLOW DWN WELL, TOO H W/ 83 JTS 2-7/8" EUE L-80 TBG, BIT SUB & 6" ROCK BIT
	10:30 14:00	3.50	WOR	39		P		RIH W/ 4-1/8" ROCK BIT, 2-3/8" EUE X 2-3/8" REG BIT SUB, TALLY & PU 95 JTS 2-3/8" EUE WORK STRING TBG
2/28/2015								TIH OUT OF DERRICK W/ 222 JTS 2-7/8" EUE L-80 TBG, TAG REST OF 7" CBP PLUG @ 10017', LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, PU 1 JT 2-7/8" TBG W/ SWIVEL, SI KELLY COCK VALVE, CLOSE & LOCK PIPE RAMS, CLOSE CSG VALVE & NIGHT CAP, SDFN
	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON USING THE POWER SWIVEL, WRITE & REVIEW JSA'S
	7:30 10:00	2.50	WOR	06		P		BREAK CIRC W/ 350 BBLS 2% KCL & FINISH DRILLING UP 7" CBP @ L.T.
	10:00 13:00	3.00	WOR	10		P		SWIVEL DWN 3 JTS 2-7/8" TBG & TAG CMT TOP @ 10175', BEGIN REVERSE CIRCULATING, DRILL OUT CMT & CBP'S @ 10185' & 10215', CIRC TBG CLEAN & RIG DWN POWER SWIVEL
	13:00 17:30	4.50	WOR	10		P		RIH W/ 66 JTS 2-7/8" EUE L-80 TBG & TAG @ 12281', RU POWER SWIVEL, BEGIN REVERSE CIRCULATING & DRILL OUT 6-5" CBP'S THAT HAD FAILED ON PREVIOUS JOB, RIG DWN SWIVEL & TIH W/ 19 JTS 2-7/8" EUE L-80 TBG, PUSH REMAINS OF CBP TO T.D. @ 12912'
3/1/2015	17:30 19:00	1.50	WOR	39		P		LAY DWN 22 JTS 2-7/8" TBG & TOO H W/ 70 JTS 2-7/8" EUE L-80 TBG & STAND BACK IN DERRICK, EOT @ 9947', CLOSE & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE & NIGHT CAP SCG VALVE, SDFN
								USED 2380 BBLS 2% KCL
3/1/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON TOO H W/ TBG, WRITE & REVIEW JSA'S

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	7:30 10:00	2.50	WOR	39		P		0 PSI ON WELL, OPEN WELL & TOO H W/ 217 JTS 2-7/8" TBG, TBG WAS PLUGGED PULLED IT WET
	10:00 12:00	2.00	WOR	24		P		LD 2-7/8" X 2-3/8" EUE X OVER, 95 JTS 2-3/8" W.S. TBG, BIT SUB & 4-1/8" BIT, CLOSE & LOCK PIPE RAMS, CLOSE CSG VALVES & INSTALL NIGHT CAPS, SDFW
3/2/2015	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
3/3/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HOLD SAFETY MTG ON RU SPOOLERS WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	24		P		50 PSI ON SICP, MAKE MTR LEAD SPLICE, PU & SERVICE ESP EQUIP, RU SPOOLERS, HOOK UP 1/4" CAP TUBE & MTR LEAD
	10:30 10:30	0.00	WOR	39		P		RIH W/ 5-3/4" NO-GO, 2-3/8" X 2-7/8" X OVER, 2-3/8" CHEM MANDREL, CENTINEL SENSOR, MOTOR, DUAL SEALS, GAS SEPERATOR & INTAKE, 6 PUMPS, 6" X 2-7/8" N-80 TBG SUB, 1 JT 2-7/8" TBG, 2-7/8" DRAIN SUB, 2 JTS 2-7/8" L-80 TBG, 2-7/8" +45 P.S.N., 2 JTS 2-7/8" L-80 TBG, COLLAR STOP & 240 JTS 2-7/8" L-80 TBG, BANDING ESP CABLE & 1/4" CAP TUBE 3 BANDS PER JT, CLOSE HYDRILL ON TBG, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE CSG VALVE & INSTALL NIGHT CAP, SDFN
3/4/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL TO LOC, HOLD SAFETY MTG ON SLICK WORK SURFACES, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	39		P		50 PSI ON CSG & 75 PSI SITP, BLOW DWN WELL, CONT TIH W/ 41 JTS 2-7/8" EUE L-80 TBG, 10', 8' X 2-7/8" N-80 TBG SUBS & 1 JT 2-7/8" EUE L-80 TBG, SPLICE ON PENETRATOR, LAND TBG ON TBG HANGER, EOP @ 9310.96'
	10:30 11:30	1.00	WOR	16		P		RD WORK FLOOR, ND HYDRILL & BOP, NUWH, HOOK UP FLOW LINES
	11:30 14:30	3.00	WOR	18		P		START ESP, PUMPED UP IN 1 HR, RIG DWN RIG, TURN WELL OVER TO PRODUCTION, RIG DWN RIG, PICK UP LOCATION, ROAD RIG TO THE 2-21C4 & SPOT ON SIDE OF LOC, SDFN

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: KATHERINE 3-29B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013329230000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-6717 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FSL 1217 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 29 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/13/2013			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached operations report for completed procedure.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 February 01, 2017

NAME (PLEASE PRINT) Joe Araiza	PHONE NUMBER 713 997-5452	TITLE HSER Manager
SIGNATURE N/A		DATE 1/18/2017

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	KATHERINE 3-29B4		
Project	ALTAMONT FIELD	Site	KATHERINE 3-29B4
Rig Name/No.		Event	WORKOVER LAND
Start date	2/4/2013	End date	2/13/2013
Spud Date/Time	4/19/2006	UWI	029-002-S 004-W 30
Active datum	KB @6,215.0ft (above Mean Sea Level)		
Afe No./Description	160520/47957 / KATHERINE #3-29B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
2/4/2013	6:00	7:30	1.50	MIRU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON ROADING RIG. FILL OUT & REVIEW JSA
	7:30	11:30	4.00	MIRU	01		P		MOVE RIG TO LOCATION. SLIDE PUMPING UNIT & RU RIG
	11:30	18:30	7.00	PRDHEQ	39		P		LD POLISH ROD & WORK 20 1" RODS OUT OF HOLE WHILE PUMPING 256 BLS HOT WTR DOWN CSG. SDFN
2/5/2013	6:00	7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PUMPING PRESSURE. FILL OUT & REVIEW JSA
	7:30	10:30	3.00	PRDHEQ	39		P		TOOH W/ 98 1" RODS, 108 7/8" RODS, 144 3/4" RODS, 10 WEIGHT RODS & PUMP AS 2 HOT OILERS PUMPED DOWN CSG. STANDING VALVE WAS MISSING FROM PUMP
	10:30	14:00	3.50	PRDHEQ	21		P		CALL & WAIT ON WIRELINE TRUCK. RIH & PERFORATE TBG IN JT ABOVE SEAT NIPPLE. RD WIRELINE TRUCK
	14:00	15:00	1.00	PRDHEQ	06		P		FLUSH TBG W/ 60 BLS 2% KCL WTR
	15:00	16:30	1.50	PRDHEQ	39		P		TIH W/ 10 WEIGHT RODS & 144 3/4" RODS
	16:30	18:30	2.00	PRDHEQ	24		P		LD 144 3/4" RODS & 10 1" RODS. SDFN
2/6/2013	6:00	7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON LAYING DOWN RODS. FILL OUT & REVIEW JSA
	7:30	11:00	3.50	PRDHEQ	24		P		RIH, FLUSH & LD 7/8" & 1" RODS
	11:00	14:30	3.50	PRDHEQ	16		P		ND WELLHEAD. NU BOP.
	14:30	18:30	4.00	PRDHEQ	39		P		RU PRS & TOOH W/ 125 JTS 2-7/8" EUE TBG. SDFN
2/7/2013	6:00	7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SCANNING TBG. FILL OUT & REVIEW JSA
	7:30	11:00	3.50	PRDHEQ	39		P		CONTINUE TOOH SCANNING TBG. FOUND 63 TTL BAD JTS TBG. RD SCANNERS
	11:00	12:00	1.00	WBP	18		P		RU SLICK LINE UNIT. RIH & TAG FILL @ 12890'. POOH & RD SLICKLINE UNIT
	12:00	18:00	6.00	PRDHEQ	39		P		RU HYDROTEST UNIT. RIH W/ 5" PKR, SEAT NIPPLE, X-OVER, 7 JTS 2-7/8"ULTRA FLUSH JT TBG, X-OVER & 198 JTS 2-7/8"EUE TBG, TESTING ALL TBG TO 8500 PSI. SDFN
2/8/2013	6:00	7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON HYDROTESTING TBG. FILL OUT & REVIEW JSA
	7:30	12:30	5.00	PRDHEQ	39		P		TIH W/ 42 JTS 2-7/8"EUE TBG HYDROTESTING TO 8500 PSI. RD HYDROTESTER. CONTINUE TIH PICKING UP 73 JTS NEW 2-7/8"EUE TBG. SET PKR @ 10200'. FILL CSG W/ 171 BLS 2% KCL WTR. PRESSURE TEST ANNULUS TO 500 PSI. TESTED GOOD.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	12:30 16:00	3.50	STG01	35		P		RU ACID EQUIPMENT. PRESSURE TEST LINES TO 9000 PSI. PUMP 37 BBLS 2% KCL WTR TO FILL TBG. TREAT ALL PERFS W/ 20000 GALLONS 15% HCL ACID USING 600 BIO BALLS FOR DIVERSION. PUMPED AS FOLLOWS: PUMPED 210 BBLS ACID THEN STARTED DROPPING BALLS. PUMP REMAINING 271 BBLS ACID THEN FLUSHED ACID TO BOTTOM PERF + 10 BBLS W/ 2% KCL WTR. ISIP 0 PSI. AVG RATE 13 BPM. AVG PSI 5172 PSI. MAX RATE 15 BPM. MAX PSI 7075 PSI. RD ACID EQUIPMENT
	16:00 18:30	2.50	PRDHEQ	39		P		RELEASE PKR. LD 20 JTS 2-7/8"EUE TBG. STAND BACK 240 JTS 2-7/8"EUE TBG IN DERRICK. SDFO
2/9/2013	6:00 6:00	24.00	PRDHEQ	18		N		SHUT DOWN FOR WEEKEND
2/10/2013	6:00 6:00	24.00	PRDHEQ	18		N		SHUT DOWN FOR WEEKEND
2/11/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP ESP EQUIPMENT. FILL OUT & REVIEW JSA
	7:30 9:00	1.50	PRDHEQ	39		P		SICP 550 PSI. SITP 600 PSI. BLEED PRESSURE OFF WELL. TOO H W/ 60 JTS 2-7/8" EUE TBG, X-OVER, 7 JTS 2-7/8"ULTRA FLUSH JT TBG, X-OVER & PKR
	9:00 10:00	1.00	PRDHEQ	16		P		NU SPHERICAL BOP
	10:00 15:30	5.50	PRDHEQ	24		P		PU & SERVICE ESP PUMP ASSEMBLY
	15:30 18:00	2.50	PRDHEQ	39		P		TIH W/ PUMP, 1 JT 2-7/8"EUE TBG, DRAIN SUB, 1 JT 2-7/8"EUE TBG, SEAT NIPPLE & 82 JTS 2-7/8"EUE TBG, BANDING 3 BANDS PER JT. SDFN
2/12/2013	6:00 7:30	1.50	PRDHEQ	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BANDING CABLE TO TBG. FILL OUT & REVIEW JSA
	7:30 15:00	7.50	PRDHEQ	39		P		TIH W/ 224 JTS 2-7/8"EUE TBG, BANDING ESP CABLE & CAPSTRING TO TBG W/ 3 BANDS PER JT & CHECKING CABLE EVERY 20 STDs.
	15:00 18:30	3.50	PRDHEQ	16		P		ND BOP STACK. NU LANDING BOWL. SPLICE PENNETRATER. LAND TBG. PLUMB WELLHEAD & FLOWLINES. SDFN
2/13/2013	6:30 7:30	1.00	RDMO	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING DOWN RIG. FILL OUT & REVIEW JSA
	7:30 11:30	4.00	RDMO	02		P		CLEAN CELLAR & STEAM WELLHEAD. RACK OUT BOP EQUIPMENT. PRESSURE TEST WELLHEAD & FLOWLINES TO 500 PSI. FLUSH FLOWLINES W/ 20 BBLS 2% KCL WTR. RDMOL